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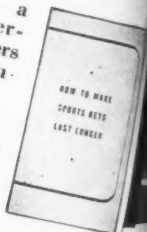
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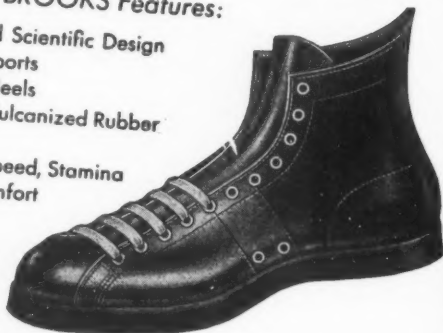
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## SCHOLASTIC COACH

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SCHOLASTIC COACH is issued monthly ten times during the academic year (September through June) by Scholastic Corporation, M. R. Robinson, president. Publishers of *Scholastic*, the American High School Weekly; issued in two editions, one for students and one for teachers.

Address all editorial and advertising communications, and all correspondence concerning subscriptions and circulation to SCHOLASTIC COACH 220 East 42nd Street, New York 17, N. Y.

G. Herbert McCracken, publisher.  
Subscription for the United States and Canada \$1.50 a year. Foreign \$2. Back issues: 25 cents, current volume; 50 cents, previous volumes.

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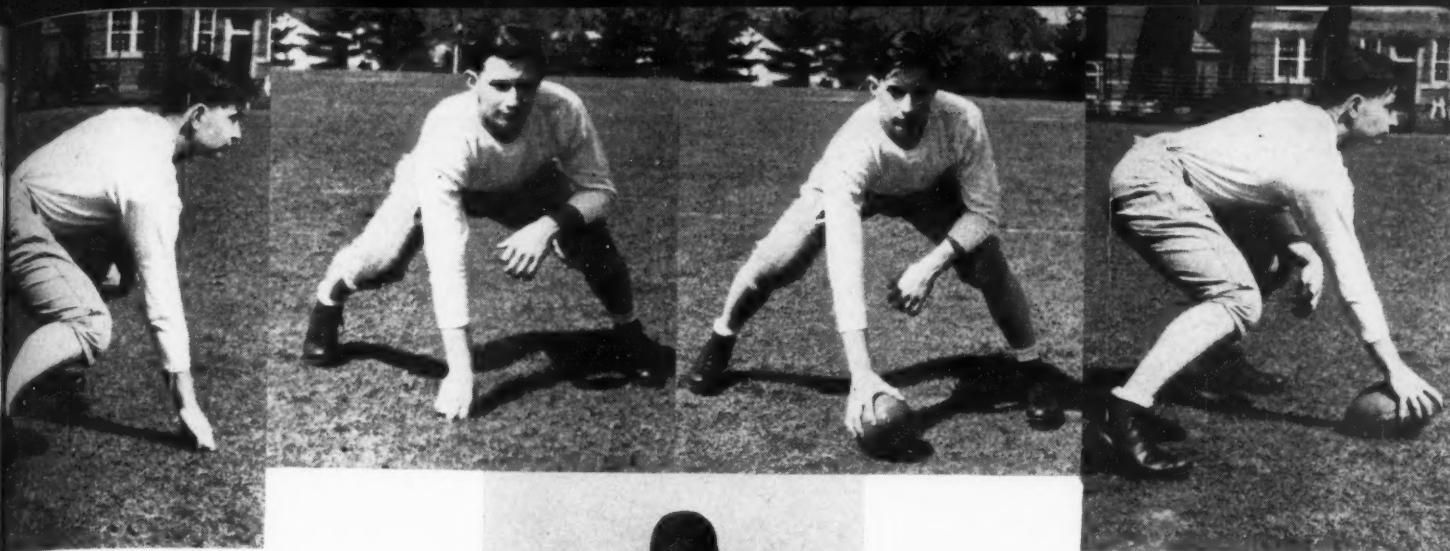
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One of the outstanding fullbacks in the East while an undergraduate at New York University, Edward H. Boell now coaches at Great Neck High School, Long Island, N. Y.

**D**URING the past four years, the T has become the country's tastiest grid concoction. Although the Chicago Bears had used this formation for years, it remained for Clark Shaughnessy and his 1940 Stanford team to glamorize it to the public. Ten straight victories, including a Rose Bowl win over Nebraska, did the trick.

While still marvelling at the Indians, the public was treated to another spectacular dose of T—that famous 73-0 splashing of the Washington Redskins by the Bears. That was the clincher. The T party was on.

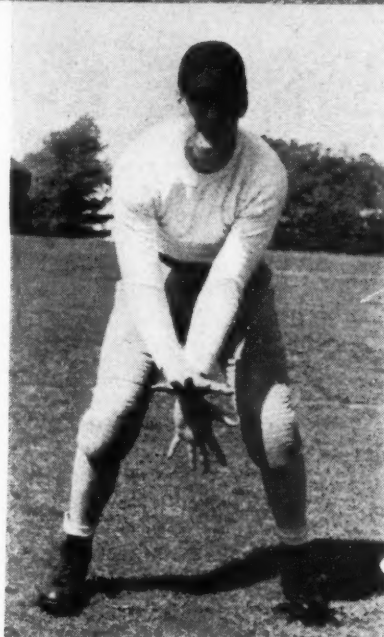
Since then such nationally famous powerhouses as Boston College, Notre Dame, Army, Illinois, Purdue, Missouri and U.S.C. have changed over to the T. Others are using it along with their regular formation. Last season we found even Columbia, Yale, Minnesota, and other traditional single-wing exponents switching to the new formation.

I was an early convert, coming over back in 1941, my second year of coaching. That made the past season my fourth year with the T and its variations.

When I say "variations" I mean just that. The Chicago T is different from the Philadelphia Eagle T. The Eagle T is different from the Illinois T. And the Army T is something else again.

Since the T is still in a state of flux, the learning process is continuous. I feel I learned just as much the past year as I did the first. Perhaps even more. There is no teacher like experience. And I've had a great deal the past four years.

Over this period, I've introduced the T to a squad that operated the year before with the short punt and the single wing; then I installed the T along with the single-wing box at a new school, following which I re-



## TIPS FOR COACHES

*by Edward H. Boell*

**Across Top:** Lineman and Center Stances in the author's orthodox balanced line. **Below:** Quarterback Stance, showing how hands are placed under center, and Back-field Fake, where back pivots from knees and swings trunk in the faked direction.

peated the T but without the single wing. And last year I introduced it to another new squad at another school.

With all due modesty, I believe I'm qualified to elaborate on the problems you coaches may run into if and when you decide to use the T. All these points have come up during my four years with the T.

1. One of the very first problems arises when you diagram a play at your first skull practice. The boys will immediately want to know, "Where's the interference?" They will miss the massed interference of the single and double wing and the short punt. They will also question you on their ability to block alone, assuming you will use one-on-one blocking. (You may prefer to double up on some of your assignments.)

This problem may be worked out on the field. You can show them that the speed of the play helps take care of both situations. Some plays go so fast only two or three blocks are required, and even these need not be held for long.

Speed is one of the requisites of a good T attack. Of course if you have one or two boys who can get 3, 4 or 5 every time they buck the ball, it doesn't make any difference what formation you use.

2. The need for the backs without the ball to fake and to keep faking until the play is over, will also give you headaches. This faking helps the linemen put on their blocks. When linemen are having trouble getting their men, the backs usually are not faking properly.

This also can best be handled on the field. Show them what happens when they do their job and what happens when they don't. The attack is built around a fair amount of deception, depending on your plays. If you don't get good faking, you will have trouble making the stuff go.

3. The consecutive-count style of signal calling, 1-2-3-4-5, etc, as used in the T with the man in motion,



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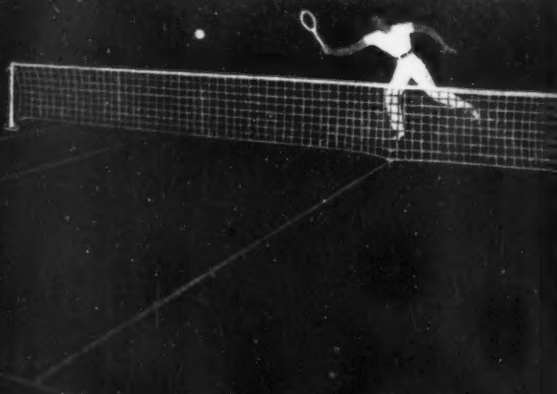
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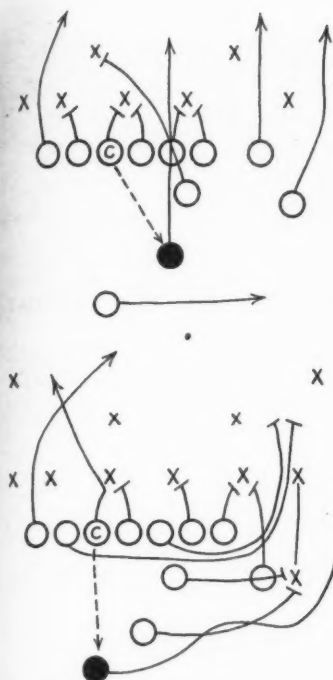
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**Single-wing buck and end run:** Here is the traditional mode of attack, with double teaming in the line and at least one interferer leading the runner. Now look at the diagrams below and see how the T accomplishes the same thing, but with a greater economy of effort—substituting speed and deception for straight power.

places the latter out toward the sideline at the snap. The higher the number, the farther out he should be, other things being equal.

This means all your quarterbacks must count with the same rhythm and that your backs must run at the same rate of speed. You can't have one boy running half speed and another running full speed, when in motion, and get consistent results with the same play.

The speed of the motion man is usually a jog. He must keep himself under control so that he can turn when the snap number is called and do any one of a number of jobs—turn to block the end in; turn and fake at the end to set him up for another blocker; turn, fake at the end and get the backer-up; turn in the flat for a pass; turn downfield for a long pass behind the secondary; turn and come back over the middle or perhaps go clear over to the opposite side for a pass; or just stand still out in the flat as a decoy.

This requires practice—loads of it. You just have to make them do it over and over until you are satisfied with the results. You may make some allowance for your slower boys. For example, you may have the quarterback run the play on a higher number for them. The idea is to have your motion man at a certain spot on the snap, depending on the job he has to do.

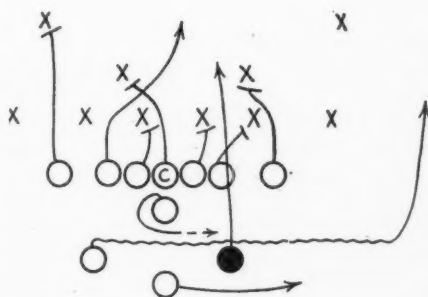
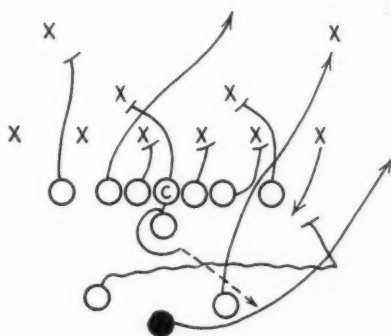
4. Your linemen pose another problem. They have a tendency to relax a little on high snap-number plays. They will sit on their haunches as the quarterback starts his count, then, as he nears the snap number, which may be as high as 8 or 9, they will come up into their regular stance, thus giving away the nearness of the snap number.

They should be ready to go on both high and low snap numbers. This adds to the deceptiveness of the attack.

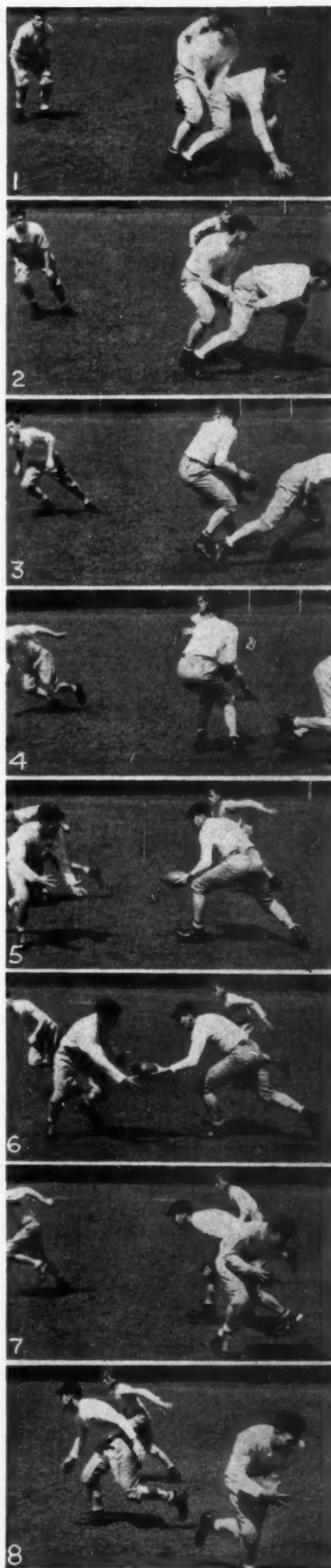
5. Many coaches over-burden their boys with plays. With some men, it's a congenital disease. In the T, however, it can get out of hand. There are so many variations you will just have to sit down, set a definite number of plays and then stick to them. These ideas and variations can really get you as the season progresses.

6. I've been four years now trying to find a quarterback who can use the man in motion properly. I had a second-string boy in 1943 who showed fine promise. But I left the school and he wound up as a blocking back in a single wing under my successor.

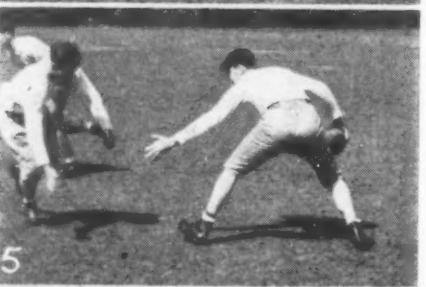
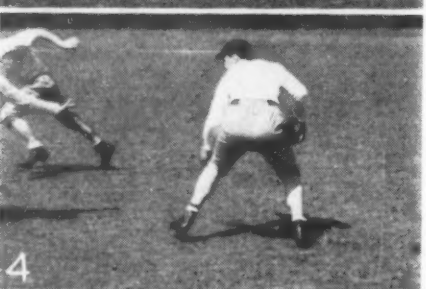
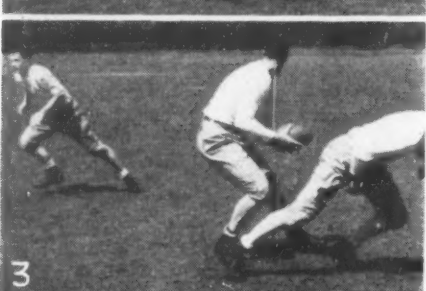
The man in motion is supposed to create changes in the defense, and, with these changes, weaknesses. The



**T sweep and quickie:** In contrast to the single-wing plays above, these T shots are predicated on speed and deception. On the quickie (below), the quarterback passes as shown on the right, pivoting on his right foot and taking a long step back in the direction of the right half. He slips the ball into the latter's arms and continues back as a fake. Very often he will fake the pass and either lateral or forward pass (see pages 8 and 9).







quarterback must plan his attack to exploit these weaknesses.

To make the defense aware of the motion man, you must pass to him in the flat, halfway downfield, deep behind the defensive halfback, or perhaps over the middle.

If the defense covers loosely or ignores him, pass quickly to him in the flat.

If they cover him close and right up on the scrimmage line, try to out-run the defense and pass deep down the field. A weakness is created when the defense covers your motion man immediately in the flat. If the other defensive backs don't adjust, you can throw to an end or another back in the vacant spot.

Simple? Yes—on paper, but awfully hard to get a schoolboy quarterback to do. He will use the motion man chiefly to block in on the end and will pass to him at random with no thought to his use as a psychological threat.

7. Along the same line is the use of ends as flankers. I usually allow my ends to go out on wide plays; that is, when they have no blocking assignments on a lineman or backer-up. He thus serves as a flanker on plays to the opposite side.

If the defense discovers this and proceeds to ignore him or cover loosely, the quarterback quickly passes to him in the flat. Complete a few of these and the defense will swing back to him in a jiffy.

8. If and when you decide on the T, you'll have coaches warning you that, "You'll have trouble getting the quarterback to spin properly." I have not found this true. In fact, I believe it is easier to teach a boy to spin in the T than it is to develop a spinner in a spin attack.

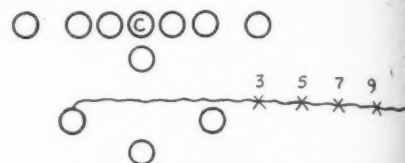
I believe this is true because the hardest spin in a T is the  $\frac{3}{4}$  wheel on a quickie. That is, if you have your quarter hand off the ball in this manner. Some coaches merely have their quarter step over and feed the ball.

All the T quarterbacks I've had have learned the essentials in one year. As yet, I've not had a quarterback for two successive years.

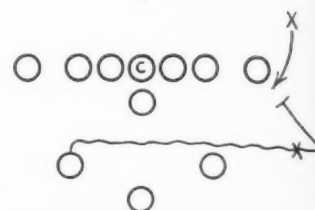
9. You will also have trouble with your motion man's timing in turning downfield to block the end or halfback or in going out for a pass. You will find your boys going too far out,

**Fake and lateral:** As in the sequence on page 7, the quarter pivots on his right foot and steps back and over towards the right half. He fakes a pass with his left hand and, keeping low, rifles a lateral to the full. The half could have heightened the fake by running closer to the quarter. The play is diagrammed on page 7.

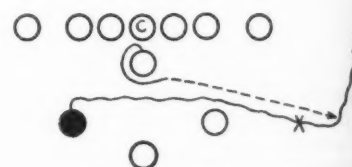
## MAN-IN-MOTION



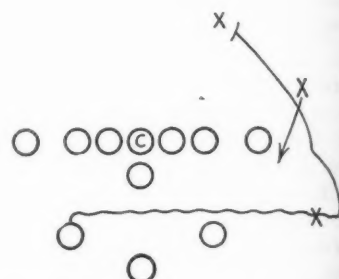
X'S INDICATE POSITION AT SNAP.



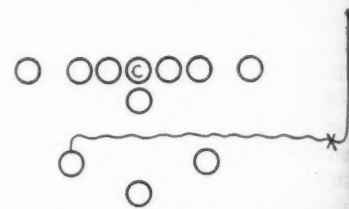
TAKING THE DEFENSIVE END IN.



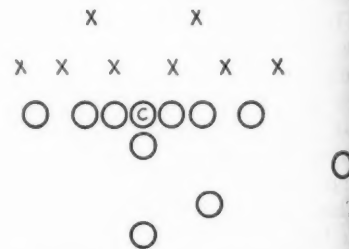
QUICK PASS IN THE FLAT.



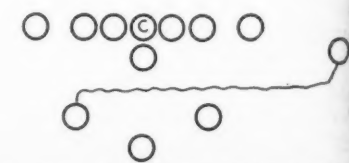
FAKING AT END, TAKING BACKER-UP.



GOING DOWNFIELD FOR LONG PASS.



FLANKING DIRECT FROM HUDDLE.



SETTING ONE COUNT BEFORE SNAP.



not out far enough, turning down-field before the snap, looking at the end when they're going to block him, etc.

The answer to this, as in anything requiring a high degree of perfection, is practice—constant practice.

The past year I helped my boys solve this problem by having the man who would ordinarily be in motion assume a flanker position direct from the huddle. In other words, instead of getting to that spot by man-in-motion tactics, he assumed it immediately as a flanker.

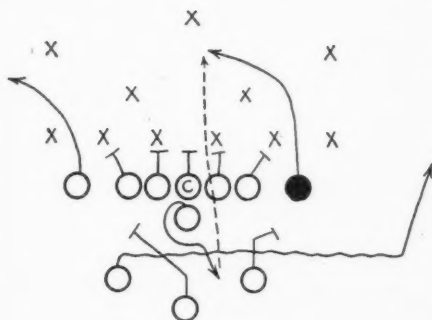
However, we still use him in motion on many occasions, having him set for the necessary full second count before the snap. This is particularly effective with green boys who have a tendency to turn down-field before the snap.

10. There are only two points in connection with our line play. One is the one-on-one blocking. I haven't had much difficulty getting school-boys to block alone. Most coaches think it can't be done. Give it a try and I think you'll be surprised. The speed of the plays is the biggest single aid to this type of blocking.

The second salient point in our line play is our high blocking. Low blocks allow a defensive lineman to lean over and break up the play. We do not ask our one-on-one blockers to move men, only to freeze them and to keep between them and the ball-carrier.

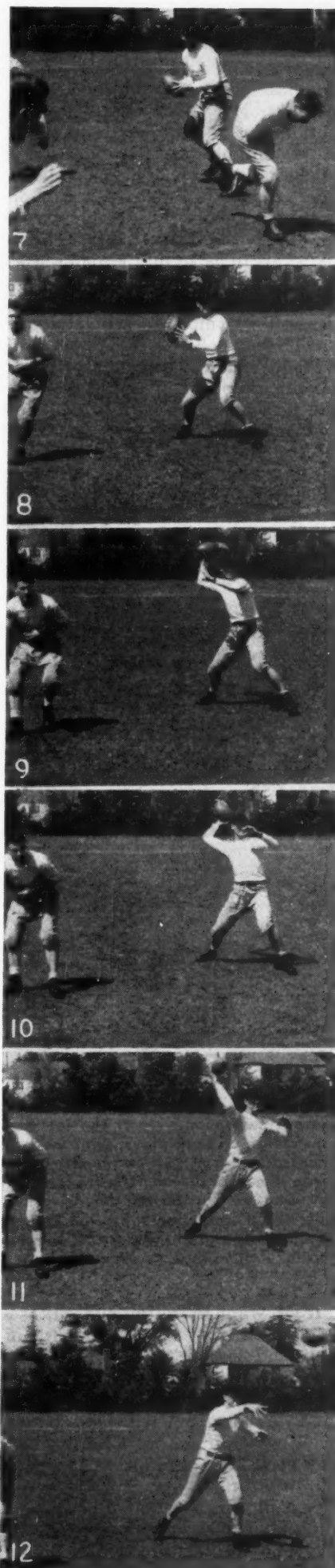
These blocks need not be held as long as those in other formations. We continually emphasize making the initial contact, holding it for a second or two, and then getting down field for that important job of cleaning up the defensive backs.

11. In our signal system we do not use numbers. We "talk" our plays; we indicate where the play is going, sometimes directly, other times with



### FAKE AND PASS

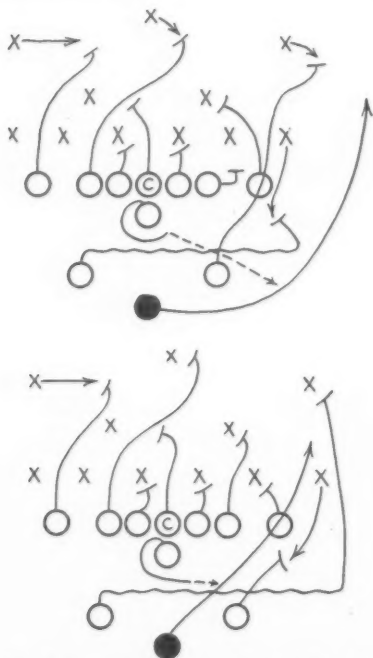
With the left half in motion, the quarterback fakes to the half and full, takes two steps back, sets and whips the ball to the right end, who has cut back of the backers-up. The fake and pass is beautifully demonstrated in the accompanying sequences.



"key" words that give the hole to be hit.

For example, "Left halfback in motion, quickie on the right, on 7." The first part is simple enough, it tells the left halfback to go into motion. The second part requires an understanding as to where the quickie hole is located. The quickie hole is inside the defensive tackle or, more specifically, inside the second man in on the defensive line. (This takes care of 5-, 6- and 7-man lines.) In this play, it's the right side we are talking about. The last part indicates the number on which the ball will be snapped.

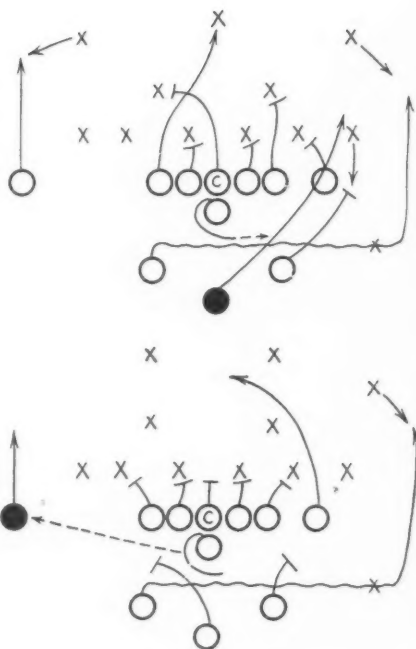
The backfield understands that on the quickie play the halfback on the side indicated carries the ball. You could call the same play and have the fullback carry the ball by saying, "Left half in motion, fullback quickie on the right, on 7." The right half has a specific assignment on this variation, but all other assignments remain the same.



**Fullback sweep and slant:** The left half is in motion on both plays, with the ball being snapped on "5" each time. In the sweep, the quarterback fakes to the right half, who goes on for the defensive half while the motion man takes the end. In the slant, the right halfback and the motion man (left halfback) swap assignments.

If we want to put an end out as a flanker we say, "Left end out" or "Left end flanker." When a halfback is put in motion, he always goes in front of the other backs and to the opposite side from which he starts. When we want to put a halfback in motion to the same side, we say, "Left half in motion, opposite."

Our quarterback does all our passing, unless otherwise indicated. We only have two or three such excep-



**End as a flanker:** On wide plays to the opposite side, the end may set up wide to create a diversion. If the opponents ignore him or play him loosely, the quarterback may shoot him a quick forward.

tions, which we seldom use. We tell our primary receiver just where to go. The other eligible receivers have definite assignments.

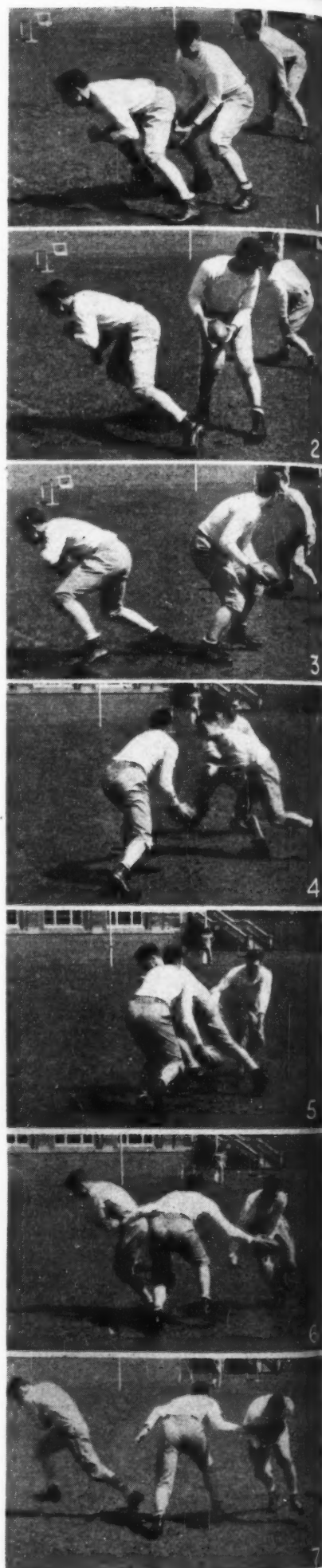
For example, "Left half in motion, right end short, on 9." Again our man in motion is indicated; our right end knows that "short" means 5-8 yards directly behind the defensive guards and between the two backers-up. On this play, our left end would go into the left flat to draw out the defensive half and our man in motion would stay in the right flat. Our other two backs, after faking for the ball, block the end on their respective sides.

The line blocks man for man with the center holding fast. If we want to send a fourth man out for a pass, the center pulls back and covers the back's assignment on the end. (This is against 6-man lines.)

In closing let me add one or two points I think are important. If you are definitely interested in using the T, find out all you can about it. Read about it. See movies, if you can get them. Get some coach with T experience to demonstrate some of the things you're doubtful about.

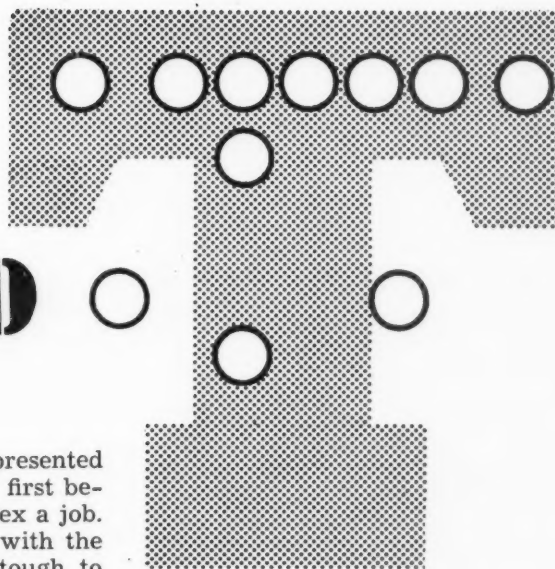
Don't go into it half-cocked. Learn all about it before attempting to teach it. Lastly, give it a fair trial.

**Criss-Cross:** The quarterback pivots on his right foot and steps diagonally back with his left. He fakes handling the ball to the fullback with his left hand, then slips the ball to the right halfback with his right hand. Note the way the latter (right halfback) has neatly faked and come back.





# The UNBALANCED



Something new has been added to the T—an unbalanced line with split ends—by the well-known pro footballers, Robert G. Trocolor, Brooklyn Dodgers, and Charles T. Avedisian, N. Y. Giants, both of whom coach high school elevens on the side, Trocolor at St. Mary's in Rutherford, N. J., and Avedisian at Horace Mann, New York.

**T**HE unbalanced-line T, we believe, represents the most powerful offense in football, conjoining the speed and deceptiveness of the T backfield with the power of the unbalanced line.

Schools that are using the straight T or the single wing with unbalanced line as offenses in themselves should find the combination a practical, highly attractive brand of offense. For one thing, it makes for more potent blocking, especially in high school circles. For another, it alleviates the coach's job.

When the T mushroomed into popular favor, our coaches did one of three things: (1) ignored it; (2) kept their unbalanced single wings while adjusting to the T with its wide variations; or (3) scrapped their old systems and took their T straight.

Both latter alternatives presented considerable difficulty. The first because it was just too complex a job. The second because the T with the balanced line was and is tough to teach. There is practically no double-team blocking in the power slots, and it's difficult to teach schoolboys the art of taking a guard, tackle or end alone, especially in the limited time you have with them.

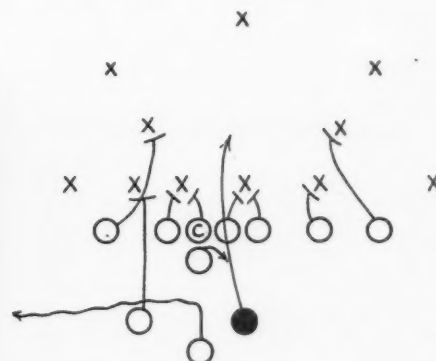
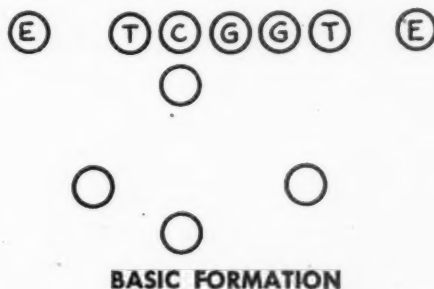
At St. Mary's in 1943, we used the heralded N. Y. Giants' single-wing offense, where guards and tackles in particular block alone. The net result was an average gain of 80 yards per game. In 1944, with the unbalanced T, we made 300 yards per game. We won 10 and lost 1, scoring 362 points to our opponents' 6.

Our unbalanced T coordinates effective double-team blocking with a speedy backfield that hits the hole with the greatest possible speed.

As shown in the diagram, the backfield lines up with the fullback  $4\frac{1}{2}$  yards behind center, and the two halves 4 yards back and arm-

By **BOB TROCOLOR**  
and  
**CHARLIE AVEDISIAN**

distance apart from the full. This brings the right half slightly inside the right tackle and the left half in the split.

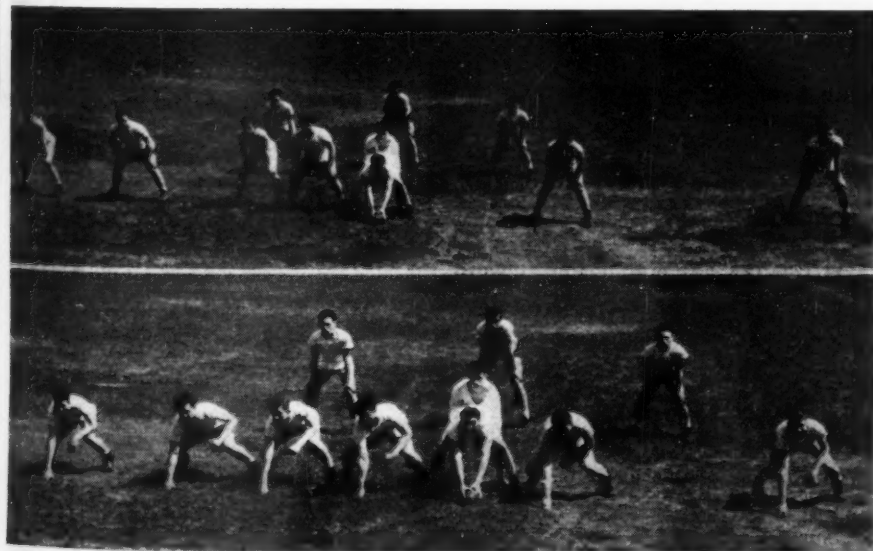


**DIAGRAM 1**

The quarterback sets up directly behind the center and handles the ball as he would in any T set-up.

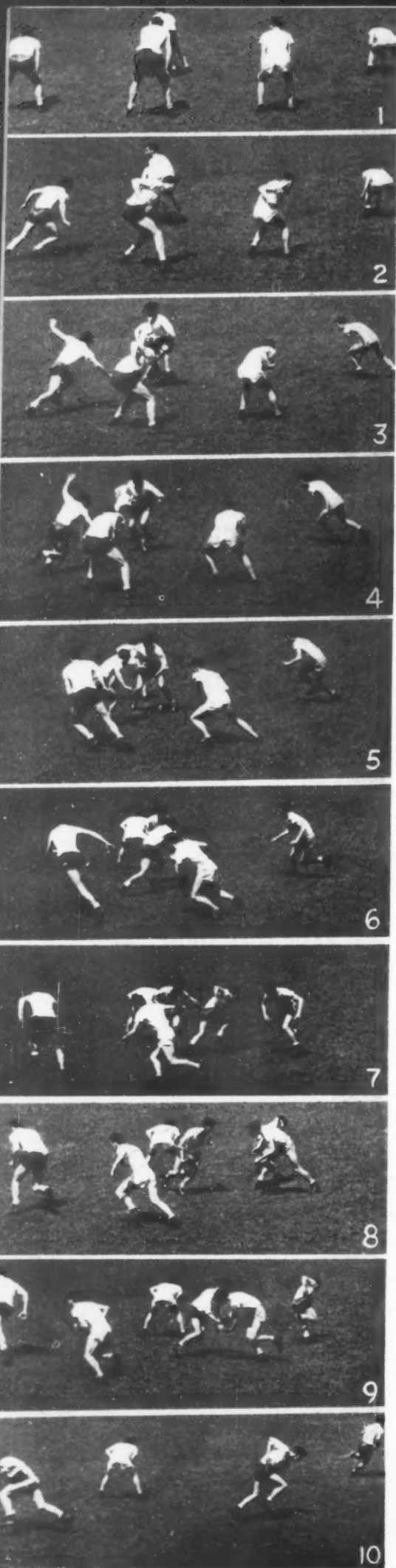
The line is unbalanced, of course, with the guards on the strong side. The diagrams reveal that the formation has its greatest strength inside tackle.

**Diag. 1** shows how the halfback can hit inside guard with the least



Unbalanced T in its pre-shift spread (above) and ready to go after the shift (below). The weak-side end splits wider than the other, with the left half in the hole and the right half just inside tackle. Several quick plays are run direct from the spread.





possible delay and with two men blocking. The man in motion (full-back) draws the defensive tackle and backer-up over, setting them up for the left half and left end.

The offensive guards and the left tackle and center double team the opposing guards.

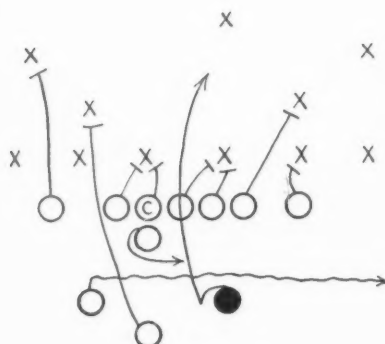


DIAGRAM 2

In **Diag. 2**, the left half is in motion to the right, the fullback fakes receiving the ball and blocks the backer-up or the tackle coming through. The right half fakes to his left, allowing a complete spin and fake by the quarter, takes the ball and hits between the defensive guards, who are double teamed by the guards, tackle and center.

The play in **Diag. 3** (a variation of the preceding play) is really a trap on the strong-side tackle. The right half fakes getting the ball, while the left half and full fake simultaneously to the left.

The full immediately comes back and blocks the defensive left end out, and the left half takes the ball and runs inside the trapped tackle, breaking straight down and out.

Since this is a delayed play, the trap on the defensive left tackle is best sprung by the outside guard,

### RIGHT END AROUND

While put into the offense strictly as a crowd pleaser, this dazzling end around produces results. As the quarterback takes the ball from center, the fullback and right half fake to the right, synchronizing a short step with a shoulder swing (2). The left half powers toward the quarter (3), fakes taking a pass (6-7) and drives over tackle.

Meanwhile, the right end has stepped diagonally across and back. With the full and right half tearing left to clear the way, the end shoots close by the quarter and takes the feed (9), which the quarter makes with a step of the right foot. Note how the quarter in 4-8 cradles the ball in his stomach and fakes with his left hand. (For close-up, see picture at top of next column.) After passing off, he continues running to his left, giving the play a total of four distinct fakes.



**Quarterback fake:** The player presses the ball against his body with one hand and fakes with the other. The stomach press safeguards against damaging fumbles and conceals the ball from the opponent.

who pulls out. The right tackle sets up the double-team block on the defensive left guard, as the right end shoots over on the guard's blind side.

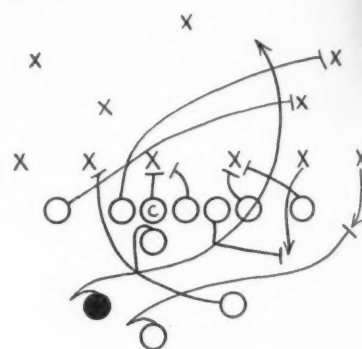


DIAGRAM 3

The blocking in the sweep in **Diag. 4** is unusual. But you will notice the blocks on the defensive left end and tackle are set up by the fake to the right half, who blocks the strong-side guard.

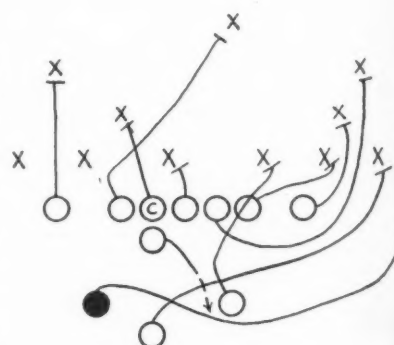


DIAGRAM 4

The quarterback fakes to the right half and then laterals to the left half. The outside guard pulls (Continued on page 14)



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## Unbalanced T

(Continued from page 12)

out, fakes a shot at the end to set him up for the full, then goes down-field for the defensive left half.

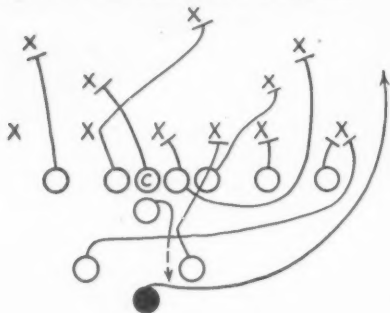
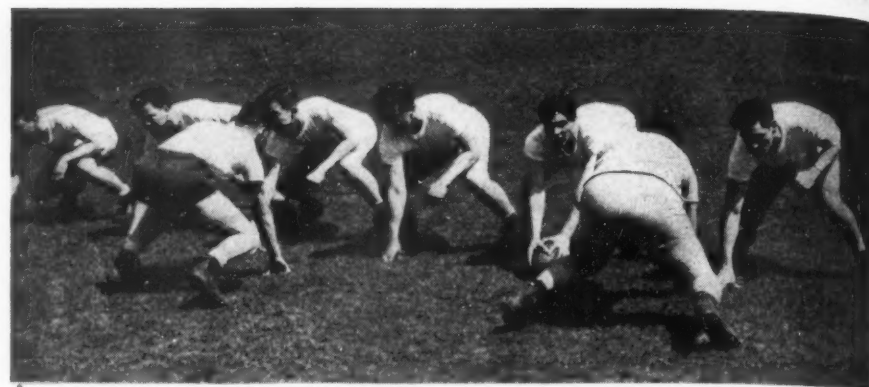


DIAGRAM 5

The same play, with variations, is shown in **Diag. 5**. Here the full gets the lateral, the left half and end double team the defensive left end and the outside guard scoots for the strong-side backer-up.

A very good play, used with great success, is shown in **Diag. 6**. Coming back to the weak side with double-team blocking is unusual, but it can be done effectively.



**Double teaming in the line:** The top picture shows the line all set after the shift. After the snap, the two guards (strong side) may pinch their man as shown below at the left, while the center and tackle (weak side) may freeze their opponent as on the right. These are comparatively low blocks, made with side of head and shoulder.

The right half steps ahead as soon as the quarter fakes the ball to him. After faking to the right, the full-back takes the ball and runs inside the weak-side tackle and the left half blocks the defensive right end out.

As in most of the preceding plays, this features some excellent down-field blocking. Again notice how the unbalanced T can throw the blocking to the point it is most needed. We are speaking of the double-team on the defensive left tackle and guard.

**Direct pass:** The quarterback edges over to his left, giving the center a clear channel to the right half. Just before the snap, the quarter drops his hands to his knees.

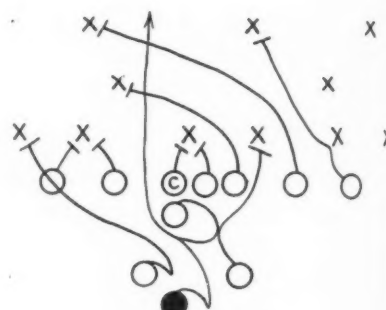


DIAGRAM 6

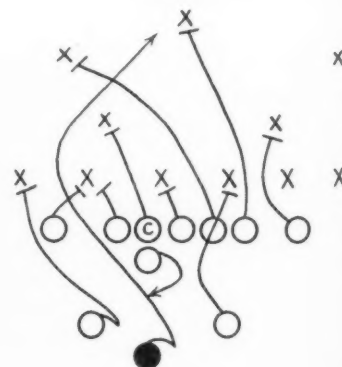


DIAGRAM 7

As in the preceding play, the left half and fullback in **Diag. 7** fake to the right. The full hits outside

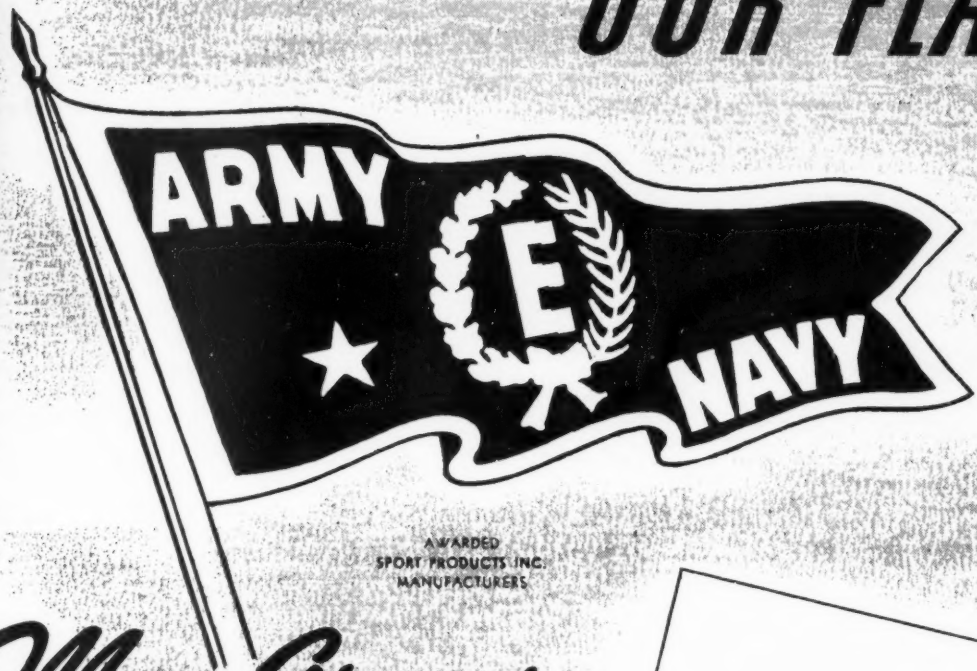
(Concluded on page 18)





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**Procedure:** After ankle is wrapped snugly with the Ace Bandage, apply two pieces of 1½" tape, superimposed. Start on ridge of arch, passing beneath the foot on the inside, pull up tightly on the outside and carry over in front of outer ankle bone to a point approximately 4" above inner ankle bone. The other two adhesive strips, superimposed, are also started from ridge of arch and applied in exactly the opposite manner. This will give strong support without the cast-like rigidity which frequently transfers shock from ankle to knee, sometimes causing severe injuries that put players on the sidelines for a long period.

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## The Unbalanced T Formation

(Continued from page 14)

tackle, as the left end and left tackle drive the defensive right tackle inside.

Your fullback must fake to the right, step up to the quarter, then pivot quickly and cut back inside the end, who is blocked out by the left half. By splitting the ends an extra yard, you may facilitate the left half's block.

The fullback, when he gets by the scrimmage line, swings to his left and back to his right to set up the defensive half for the right guard.

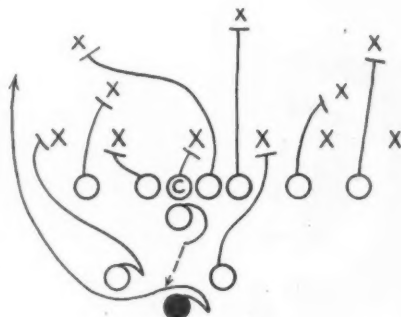


DIAGRAM 8

In the weak-side sweep in **Diag. 8**, the right half plunges inside guard on a fake from the quarter. The latter spins to his right and laterals to the full, who swings wide around end. The left half quickly fakes to his right and cuts back to block the defensive right end on the outside.

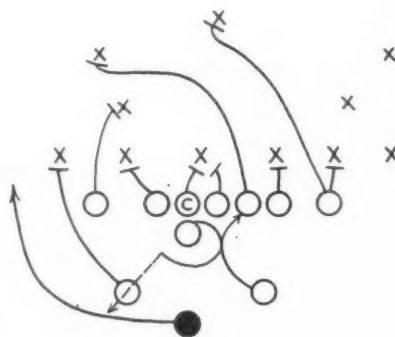
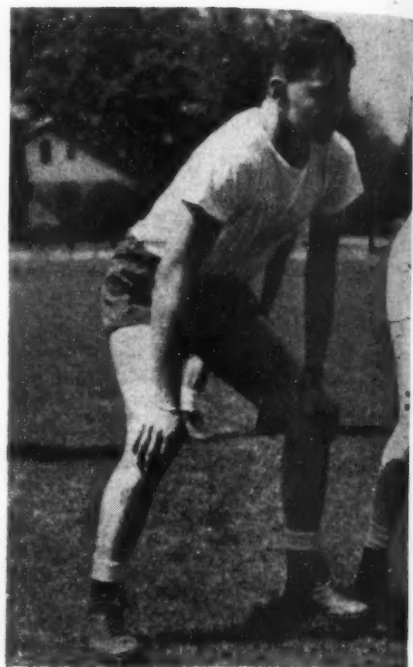


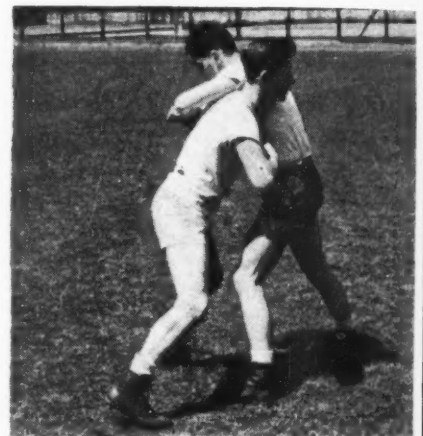
DIAGRAM 9

A variation of this play, and just as effective, is outlined in **Diag. 9**. The left half may set up a yard closer here so that he can throw a quick block on the defensive right end.

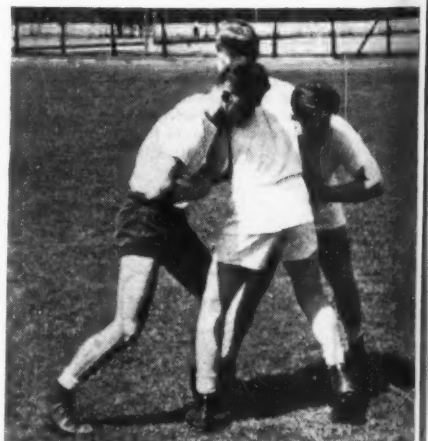
In closing, remember, the unbalanced line T derives its power from double-team and downfield blocking plus the speed of the backs, who not only hit holes effectively but set up the key blocks as well.



High lineman stance before shift (see page 11): Feet comfortably spread, weight evenly distributed, back straight, head up, hands on knees, and shoulders squared. Man is ready to go or shift.



High one-on-one block from stance shown above on play run from pre-shift spread.

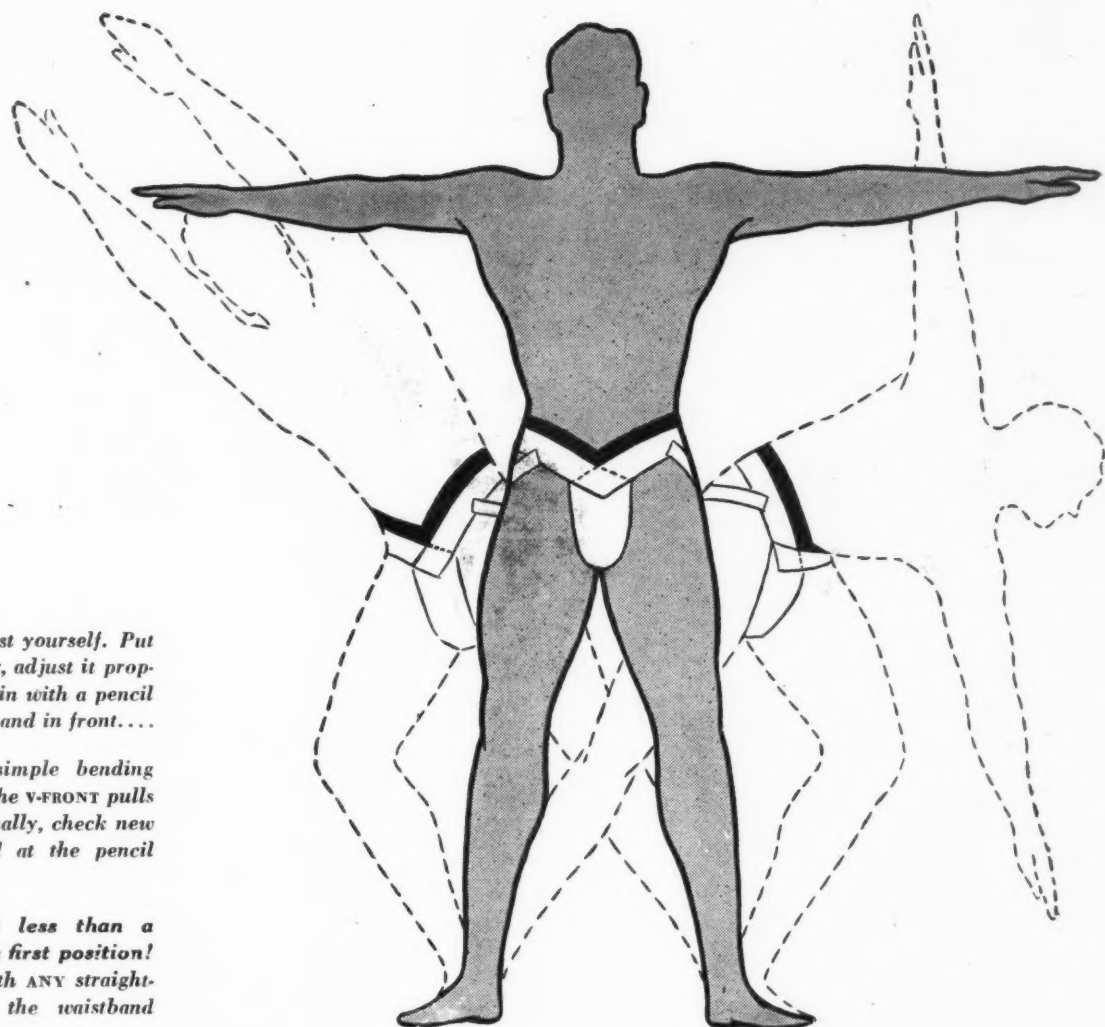


High double team evolving from same stance on play run direct from pre-shift spread. Elbows are out, hands on chest.



# NO SLIP! NO SAG! NO CHAFE!

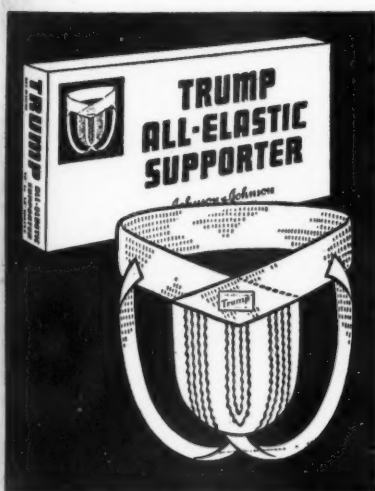
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• Make this simple test yourself. Put on a TRUMP Supporter, adjust it properly and mark your skin with a pencil along the top of waistband in front....

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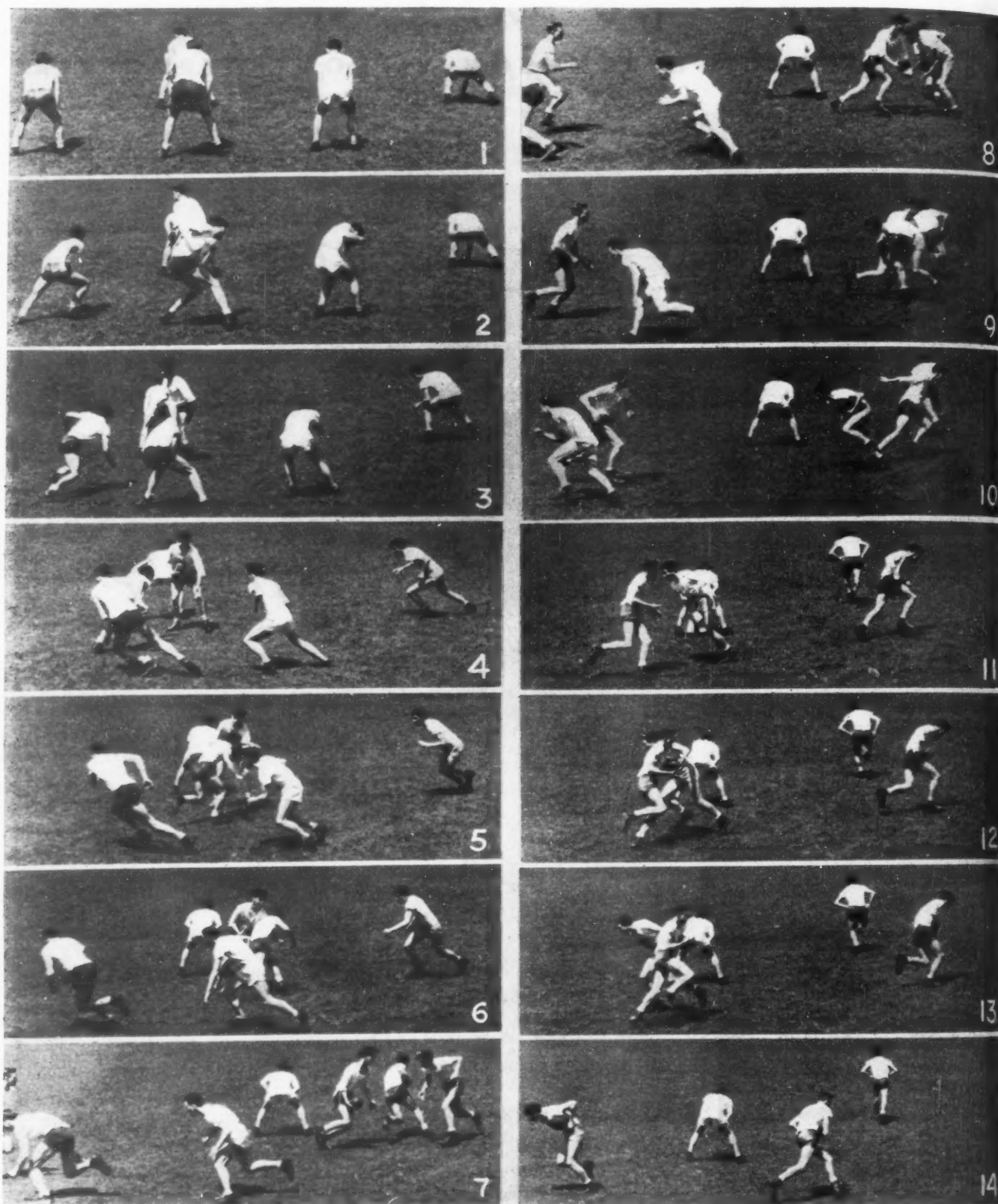
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# DOUBLE END-AROUND IN UNBALANCED T



**S**TRICTLY a razzle-dazzler, the double end-around is a good companion to the singleton (see page 12). The play is run exactly the same. The full and right half fake right with a short step and shoulder swing (2), as the left half drives toward the quarter (3). The former pair then swing around to their left (4), and the left half fakes taking the ball from the quarter (6). Meanwhile the right end

has swung back and across (3-6). The quarter steps toward him, slips the ball into his arms (8-9) and keeps going to his left. In the interim, the left end has slid back toward the opposite side. He runs inside the faking full and right half (7-10), takes the ball from the right end—who feeds it to him with his left hand so that his body masks the pass (12)—and sweeps wide around the offensive right end.

"Yes,  
Mac.  
tion ce  
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pools  
Now  
us lon  
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Memo  
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*"...a living memorial—a center of community activity"*

"Yes, Jerry and Pete will be here . . . and Tim and Mac . . . You see, Sam, it's to be a complete recreation center . . . baseball, football, basketball, tennis—with plenty of spectator stands . . . Yes, wading pools and playgrounds for the little tykes . . . Now that we have the scale model, it won't take us long to whip our plans into shape . . . Yes, everybody seems to agree on the idea of a Living Memorial, a center of wholesome community activity for years to come . . . O. K. Sam, glad you can make it. It's a worthwhile project!"

Would you like suggestions on organizing your community's plans for a Living Memorial to honor the memory of its World War II service men and women? For helpful information, write to George M. Trautman, Chairman, American Commission for Living War Memorials, 30 East Broad Street, Columbus 15, Ohio.

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# A TRIPLE INTRAMURAL PROGRAM

by Roland F. Ross

Roland F. Ross is physical director and coach at the Roxbury, N. Y., Central School.

ON THE theory that the success of an intramural program is proportionate to the number participating in it, Roxbury has been striving for years to get every able-bodied boy and girl into a game.

Since Roxbury is a fairly typical school, an outline of its set-up and methods should prove helpful to other schools interested in extending their intramural services.

Our indoor activities revolve around a combined gym-auditorium, which has a playing floor 54 by 66 feet. On the side opposite the stage are folding bleachers that will seat 400, yet when folded against the wall take up only three feet of floor space. This added area is of great help in running our program.

The floor is marked so that we can play basketball and shuffleboard at the same time. By using the width of the floor, rather than the length, we can play two volleyball or two badminton games simultaneously. The nets are supported by a post at each end and one in the center of the floor.

The stage is 24 by 44 feet, enough for six table tennis games.

The boys' and girls' locker rooms are identical in design. Each battery of lockers consists of four half-length and one full-length lockers. By careful locker assignment in gym classes, each of the four students in a battery may avail himself of the full-length locker when he has class.

We also have a drying and shower room and, for girls, special shower booths in addition to a shower room.

## Outdoor facilities

The athletic field is approximately two and a half acres in size. By carefully laying out our play areas, we can accommodate all who want to play.

The field ordinarily consists of a baseball diamond and the standard New York State 100-yard obstacle course. In the spring, we lay out five softball diamonds; in the fall, a football field and two smaller fields for soccer, touch football and speedball. Two clock-golf courses comprise a corner of the field.

Space is also available for two tennis courts. But this will have to wait for the end of the war.

Various types of equipment are essential for an extensive program. Basic materials include: an assortment of footballs (including the so-called junior size for the smaller boys); basketballs, softballs (rubber-covered ones are ideal if they can be obtained); softball bats, baseballs and bats, a collection of rubber-play balls of various sizes; badminton racquets, presses and a liberal supply of shuttles; boxing gloves, table tennis paddles, balls and nets; volleyballs, archery equipment, golf sticks and balls for the clock-golf courses, horseshoes, croquet set, checkers, shuffleboard set, dart boards, bowling sets, paddle tennis equipment, and other minor items that are usually found in the gym supply chest.

## Organization

Considerable time must be spent on organization. If the physical director will consider this part of his job as important as varsity coaching and will spend as much time, proportionately, on it he will have little to worry about. Once he organizes the program, it will practically run itself.

At Roxbury, we run three separate intramural programs — one during the noon hour, one during a regular activity period and one after school. Since the majority of our pupils come to school by bus, we can count on their presence during the noon hour. By working our intramural games into the staggered time schedule of the school cafeteria, we can offer an interesting program at this time.

The noon and after-school sections are optional, while the activity-period program is required.

Our boys and girls sign up for the various activities at the beginning of their regular gym periods. The captains and teams are chosen as follows:

We select as captains the boys and girls with the best knowledge of the game to be played. We try to give every student a chance to be captain several times during his high school career.

After the captains are chosen, they meet and pick their teams from the list of signees. Mimeographed



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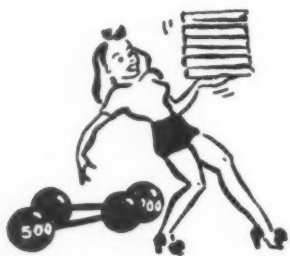
### GENTLEMEN:

Please send me your aptitude test.

Name.....

Address.....

S-4



## ADEQUATE STRENGTH

School towels must be strong to stand up under continuously hard shower-room usage. And that is the reputation McArthur Super-Gym towels have maintained for years and years. For complete information write Geo. McArthur & Sons, Baraboo, Wis.

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## KNOCKDOWN BLEACHERS

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can be delivered for immediate use if you act at once.

We also urge those of you who have already asked for, and received, quotations to hasten action in placing orders if you expect delivery in time for early football games.

There is only one genuine

**KNOCKDOWN BLEACHER**

LEAVITT CORPORATION

(Est. 1895)

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URBANA, ILL.

copies of the teams are then posted so that every player can determine what team he is on and the exact date and time his team plays.

In individual activities, such as table tennis and badminton, we arrange the draw so that the best players do not meet until late in the tournament. All byes are put in the first round. Care is taken to post schedules well in advance of the playing date.

### Officiating

The officiating of team games is important. The director can do one of two things here. He can do all the officiating himself or, better yet, train boys and girls to act as officials. Varsity team members usually make the best officials. Each would-be official may be asked to pass a test.

Motivation is often necessary in intramural programs, especially in getting officials. We have no worries on this score. Our point system for varsity letter awards, in which points towards the school letter may be earned by both playing and officiating (see *Scholastic Coach*, February 1939, page 11), assures us of a bumper crop of officials.

### Improvised equipment

Here are a few tips on improvising basic materials:

**Bases:** Suitable bases for intramural baseball and softball may be made by cutting  $\frac{3}{8}$  inch plywood into one-foot squares and painting them white. They are inexpensive and easily handled, with no sharp edges to cause sprained ankles.

**Score Sheets:** Cardboard cut into 9 by 12-inch rectangles, with the corrugations running lengthwise, make excellent backings for score sheets. Paper clips in each corner will secure the papers on the windiest of days. A pencil may easily be shoved into the top.

We find it saves time to mimeograph blank score sheets. Hence on game day all that remains to be done is to fill in the names. A list of the team players may be fastened underneath the blank sheets for handy reference by team captains.

**Bulletin Board:** A large and conveniently located bulletin board is vital to sustain interest. Team standings, schedules, etc., make the bulletin board a rallying ground for the students. Roxbury's bulletin board covers over half a wall in the physical director's office. At that, we find it isn't big enough.

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# "SOUND" FUTURAMA

by Albert K. Ward

Albert K. Ward is a sales engineer in the sound equipment section of the RCA Victor Division.

THE acoustical miracles that lie ahead should prove a god-send to the men who dabble in formations, fast breaks and hits-and-runs. The post-war coach will have at his disposal a variety of electronic devices that will help produce superior-trained, superior skilled teams.

The Walkie-Talkie immediately comes to mind. Developed prior to the war, its usefulness has been proven on every battle front. It is expected to become available to the post-war sports man.

The football coach sitting in the press box or at some other vantage point will find this device useful in transmitting instructions to assistants on the field or on the bench.

The Walkie-Talkie can be useful, too, for indoor sports such as basketball or hockey. With it, the coach may supply running instructions during a fast workout or he may use it to instruct large physical education groups.

The Walkie-Talkie may also be

employed to advantage by sideline broadcasters in giving the running score, scoring plays, substitutions, yardage to go, down, etc.

As even smaller electron tubes are developed for the Walkie-Talkie, its size will be further reduced and its battery drain minimized. With these improvements, the device should take on a wide variety of sports applications.

During the war, our electronic engineers have had to develop microphones operable under extremely adverse conditions. They have performed similar miracles on all the other equipment in public address systems.

## All-weather "mikes"

Loudspeakers have been produced for exacting conditions in the tropics, on the seas and on battlefronts the world over. Amplifiers and other pieces of equipment have been specially treated and designed to stand up in the worst type of weather.

The "know-how" that has gone into the making of this sturdy

equipment, will be applied to the school post-war sound system. The loudspeakers in our sports stadia, for example, will have greater sensitivity and an increased frequency range which will make possible a superior quality sound installation.

Microphones are now being developed which the indoor coach, especially of boxing and wrestling, will be able to use for close-range instructional purposes. During a sports demonstration, the coach will be able to indicate and explain the techniques being presented. Another application of this device will be for running commentary at sports tournaments.

A device known as the electronic or sound-amplified megaphone will have many uses in peace-time sports. Easily carried, it will enable the cheerleaders to reach every section of the stands. It can also be used for conveying instructions that the unamplified voice would have trouble getting across.

Coaches will get additional assistance from television receivers. This coaching adjunct may not materialize immediately after the war, but it will be available when television networks are developed. Television will enable the coach to watch and maybe scout games in every section of the country.

(Concluded on page 28)

*From any angle*

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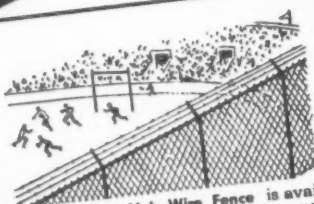
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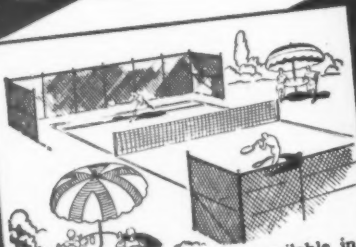
You need not wait until after the war to procure these Stewart products because they are available now to those participating in the U. S. Office of Education Victory Corps Program. Then there are others, such as wire window guards, wire partitions, steel gates, etc., available for certain protective purposes. Complete information will be sent on request. When writing please mention products in which you are interested.



Stewart Chain Link Wire Fence is available with or without barbed wire overhang arrangement. Style 3TH (three wires) is shown. Style 5TH has five wires at top, and 0TH, no wires.



Baseball Backstop is 20' wide and 12' high with a 10' wing set at an angle on either side. A 4' overhang at top deflects upbouncing balls.



Tennis Court Backstops are available in heavyweight construction only, and in one height, 12'.

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Experts in Metal Fabrications Since 1886

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and WIRE  
FENCES

# PHYSICAL RECONDITIONING

by Capt. V. A. Mueller and Tech. Sgt. Joe Mersand

This is the second of two articles on the Army's new program for the reconditioning of the disabled, by Capt. Vermette A. Mueller (Medical Corps) and Tech. Sgt. Joseph Mersand (Educational Reconditioning) of the Army Service Forces Regional Hospital, Camp Crowder, Mo. Their first installment last month dealt with the theory, practice and results of the program. Their current piece concentrates on the physical aspects of reconditioning.

**P**HYSICAL reconditioning is not a gymnasium program under a new name. It is an entirely different type of program designed to recondition hospital patients by means of supervised, planned and well-coordinated activities. Medically supervised, it is as much a part of the patient's treatment as his surgical or medical care. While not the sum and substance of reconditioning, it is a vital and integral part.

The A.S.F. Regional Hospital at Camp Crowder has been active in the field of reconditioning since July 1943. In the past 18 months, it has treated some 2,000 Class I and II patients and an even larger number of Class III and IV cases.\*

Physical reconditioning begins as soon as the patient is able to participate in any type of activity. Naturally some begin much earlier than others—the type of illness being the determining factor.

### Triphasic activity

In general, physical activity for Class III and IV patients is triphasic—calisthenics, sports and games, and corrective work. Calisthenics are grouped into four classes, with alternates for patients with disabilities prohibiting participation in the prescribed exercise.

Class IV calisthenics are usually taken in bed and are graded both in type and in the number of repetitions. Every effort is made to use the "overload" principle so that muscle tone is maintained or even increased.

Class III calisthenics are very similar to Class IV except that they are done out of bed and are somewhat more severe. Since the patients are ambulatory, new exercises may be introduced, such as squatting and bending.

Sports and games for Class III and IV patients vary from dart throwing

for bed patients to volleyball and badminton for the ambulatory cases. The use of fleece balls with badminton rackets has proved very successful.

Corrective work is accomplished by two media. For Class IV patients, the gymnasium is brought to the ward in the form of a mobile "Muscle Cart." This cart is equipped with various types of corrective equipment such as spring resistors, rotators, medicine balls, and dumbbells.

The Class III patients are sent to a corrective gymnasium where they have a much more varied choice of apparatus. Each piece has a specific function, and individuals are assigned according to their disability.

### Advanced section

When patients have recovered to the point where they no longer need hospital and nursing care but still need further convalescence, they are transferred to the advanced reconditioning section as Class II patients.

The physical program in this section is much more diversified. The calisthenics are continued in a more strenuous form, but are supplemented with graded combatives and guerilla exercises. Sports and games are likewise continued, but here again their strenuousness is intensified. Many types of games are used, including such popular sports as basketball and touch football. Relays also play an important part in this program.

A third phase of the program is corrective work. This is similar to the correctives in the Class III and IV program. Patients spend an hour daily on this type of work.

The fourth phase consists of drilling and hiking. Drilling, the so-called "exercise of command," provides an excellent means of exercising the lower extremity and developing neuromuscular coordination. Hiking is used both to develop lower extremities and to increase cardio-respiratory endurance.

It is administered with caution, however, beginning with a mile and gradually increasing the distance to 15 miles. A goal of fifty miles in a week is set, so that the soldiers may be thoroughly tested before returning to duty.

Aquatics are included for Class I, II and some III patients, where facilities are available. These activities are subdivided into two phases. The

\*Class IV consists of bed-ridden patients who can exercise their arms and shoulders. As soon as they can walk, they are considered ambulatory or Class III patients. When they are ready for more advanced reconditioning, they move up to Class II and I.



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Get your stock of ANTIPHLOGISTINE now at the start of the season, and use the Moist Heat way to relieve pain and swelling that sometimes accompanies sprained ankles, wrenched muscles, bruises and contusions.

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first phase consists of free swimming, which is enjoyed by many patients and provides excellent, well-rounded exercise.

The second phase consists of supervised water-resistive calisthenics. Water provides an excellent form of resistance, and exercise against resistance is the most effective type extant. It is especially effective in developing atrophied muscles.

The final form of testing in Class I is done on an obstacle course specifically designed for use in reconditioning. It is really two courses—primary and advanced. The obstacles on each parallel one another and differ only in respect to difficulty.

Patients are first assigned to the primary course so that they may orient themselves and develop confidence in their injured extremities. This tends to prevent injuries. As soon as they have satisfactorily demonstrated their ability, they are assigned to the advanced course.

The obstacles on these courses increase stamina and endurance and serve as corrective equipment as well.

In general, the physical reconditioning program at Camp Crowder is a carefully graded, supervised and active program of physical activity, with an equitable balance between organized, prescribed activity and diversional, entertaining activity.

Evidence indicates that some form of reconditioning will be carried over into civilian medical practice. In any event, the experiences of men in the field of physical reconditioning should prove a valuable reference source for all men interested in physical education and athletics.

## "Sound" Ideas

(Continued from page 25)

High school players, when not in action, may watch these games and learn how the pro and college players execute the finer points of offense and defense. It is hoped that students of the game will not have to watch a six- or twelve-inch picture, but that provisions will be made to project the action on a screen of sufficient size to make it easier to follow the play.

Another important aid to the sports program will be sound film projectors.

Wartime security restrictions prevent more than a hint of the electronic devices to come. It can be said with assurance, however, that they will prove a happy surprise to the coach.

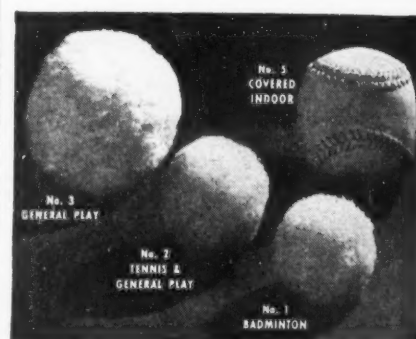


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## COACHING SCHOOL DIRECTORY

**COLORADO H. S. COACHES ASSN.**—Denver, Colo. Aug. 20-24. Myron Willett, director. Courses: Football, Basketball, Track, Wrestling. Staff: To be selected. (See adv. below.)

**IOWA H. S. ATHLETIC ASSN.**—Clear Lake, Iowa. Aug. 19-24. Lyle T. Quinn, director. Courses: Football, Basketball, Track, Baseball. Staff: Fritz Crisler, Adolph Rupp, Chuck Hoyt, others.

**INDIANA BASKETBALL SCHOOL**—Logansport, Ind. Aug. 23-25. Cliff Wells, director. Staff: Glenn Curtis, Loren Ellis, Burl Friddle, E. N. Case, Ed Kellow, Wayne Wakefield, George Bender.

**KANSAS COACHING ASSN.**—Topeka, Kan. Aug. 20-24. E. A. Thomas, director. Courses: Football, Basketball, Track, Baseball, Training. Staff: To be selected.

**NEBRASKA H. S. ACTIVITIES ASSN.**—Lincoln, Neb. Aug. 15-18. O. L. Webb, director. Courses: Football, Basketball, Six-Man Football, Track. Staff: Lynn Waldorf, A. J. Lewandowski, Bruce Drake, Reeves Peters.

**NEW YORK H. S. ATHLETIC ASSN.**—Clinton, N. Y. Aug. 27-Sept. 1. Phil Hammes, director. Courses: Football, Basketball, Six-Man Football, Baseball, Track, Training. Staff: Carroll Widdoes, Ed McKeever, Rae Crowther, Ozzie Cowles, Lou Alexander, Emil Von Eling, Ray Duncan. (See adv. on page 44 of last month's issue.)

**OKLAHOMA ST. COACHES ASSN.**—Oklahoma City, Okla. Aug. 20-24. Leo K. Higbie, director. Courses: Football, Basketball. Staff: Clark Shaughnessy, Bobby Dodd, Louis Menze, Jim Lookabaugh.

**PENN STATE COLLEGE**—State College, Pa. Main Session. July 2-Aug. 10; Post-Sessions, Aug. 13-31, Sept. 3-21. Courses: Health Education, Recreation, Physical Ed., Athletics. Staff: College Faculty. (See adv. on page 46 of last month's issue.)

**TEXAS H. S. COACHES ASSN.**—Abilene, Tex. Aug. 6-10. Howard Lynch and Bill Carmichael, directors. Courses: Football, Basketball, Physical Ed., Training. Staff: Dutch Meyer, Skip Palrang, Tom Dennis, Bill James.

**U. OF FLORIDA**—Gainesville, Fla. Aug. 9-11. Tom Lieb, director. Courses: Football, Basketball, Track. Staff: Tom Lieb, Spurgeon Cherry, R. G. Pitman, Percy Beard.

**UTAH ST. AGRICULTURAL COLLEGE**—Logan, Utah. June 11-15. E. L. "Dick" Romney, director. Courses: Football, Basketball. Staff: Jeff Cravath, Everett Dean.

**WISCONSIN H. S. COACHES ASSN.**—Madison, Wis. Aug. 22-25. Clark Van Galder, director. Courses: Football, Basketball, Physical Fitness. Staff: Bo McMillan, Harry Stuhldreher, Bud Foster.

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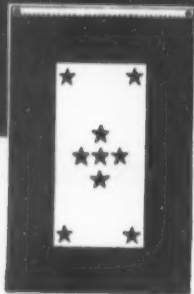
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## Coaches' Corner

Please send all contributions to this col-  
umn to Scholastic Coach, Coaches' Corner  
Dept., 220 East 42 St., New York 17, N. Y.

One girl who could always be ac-  
cused of looking out for her Self is  
China, Tex., High's Barbara Self, a  
female cager who has scored an in-  
credible 4,189 points in 118 basketball  
games the past three years—an aver-  
age of better than a point a minute!  
Coach C. C. Alexander claims she's the  
greatest player he's ever seen. Who is  
this bum Luisetti?

From the baseballer's bible, *The  
Sporting News*, comes the most famous  
of all scouting stories, the one about  
the ivory hunter who had been tipped  
off on a great prospect. Finding the  
youngster on an isolated farm, about  
to go rabbit hunting, the scout asks  
whether it's all right to go along.  
"Okay," answers the tall, taciturn  
youth.

They trudge along for awhile, and  
the scout suddenly says to himself,  
"This kid can't be very smart. He for-  
got to bring his rifle." But a few min-  
utes later, the boy suddenly picks a  
rock out of his pocket, throws it with  
his right hand and hits a rabbit, 70 feet  
away, right behind the ear. A little  
later, the kid repeats the feat.

The scout, both puzzled and amazed,  
finally blurts out, "But I thought you  
were a southpaw. How come you didn't  
throw with your left hand?"

"Oh," came the calm answer, "I  
only wanted to stun it, not splatter it!"



D'jever putt a herring into a golf  
cup? It almost happened in Milwau-  
kee a couple of weeks ago. Golfers at  
the Tripoli Country Club suddenly  
found the fairways alive with fish. It  
seemed a 60-mile-an-hour squall  
scooped a mess of fish out of Lake  
Michigan three miles away, and de-  
posited them all over the links.

When baseball fans yell "Oh boy!" at  
the sub second baseman of Dwight  
Morrow High, Englewood, N. J.,  
they're only kidding. What they really  
mean is, "Oh baby!" For D.M.'s utility  
infielder is a girl! And a pretty one to  
boot. She's Janet Jacobs, 16-years old,  
5-foot-4 and 120 pounds.

A beautiful bunter and a terrific  
fielder, she isn't a regular because of  
Coach Bill Beck's plethora of talent  
this year.



You can't walk a millimeter in good  
old Snohomish, Wash., these days  
without tripping over a major league  
baseball scout. Since Darrell Keller,  
the local schoolboy twirler, reeled off  
two straight no-run no-hitters early  
this season, the town has been over-  
run with "strangers." The fact that  
Darrell's under draft age hasn't  
dimmed his attractiveness any.

About the only job securer than civil  
service is coaching at Cornell Univer-  
sity. Far above Cayuga's waters, they  
like to pick a coach who will stick  
around awhile. For instance, track  
coach Jack Moakley has been at Cor-  
nell 47 years; wrestling coach Walter  
O'Connell, 37 years; and soccer coach  
Nick Bawlf, 25 years. When Ed Mc-  
Keever put his John Hancock on a Big  
Red grid contract this spring, he knew  
what he was doing. In the past 25  
years, Cornell has had but two football  
coaches—Carl Snavelly, who left of his  
own volition, and Gil Dobie, who was  
slightly pushed.

The greatest of all America's foot-  
sloggers, 57-year Clarence De Mar, is  
getting old. He stayed out of the his-  
toric Boston A.A. marathon this year

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just because he's holding down four jobs. He works 37½ hours a week for a Boston newspaper, 28 hours at a war job, teaches printing two evenings a week at a reformatory and runs a farm on the side. He spends all his spare seconds sleeping.

If the anatomy of Luke Johnsos, the co-coach of the Chicago Bears, remains intact after years of pro footballing with the team he now coaches, it's because he was always a step ahead of the next guy. Although he played on the same team with bone-crushing Bronko Nagurski and engaged in countless scrimmages with him, Bronko never laid a finger on him. Luke never gave him a chance.

Whenever George Halas, the papa Bear, announced a scrimmage, Johnsos was the last to dress. He waited to see which shirt Mr. Bronk would wear. If Bronk slipped into a black number, Luke did likewise. If it were the white shirt, Luke wore white. In short, Luke always made sure he was on Bronk's side!

Luke, incidentally, is one of the smartest operatives in the business. He has such a camera-eye and is so keen a diagnostician that he has been a tremendous asset to the Chicago mon-sters at the press-box end of a tele-phone to the bench.

They tell of the time Johnsos un-

erringly spotted an enemy weakness, but was startled to discover that the Bears, despite their endless repertoire of plays, had none which could exploit this weakness. So Luke invented one on the spot, rapidly sketching a ma-neuver and just as rapidly dispatching it to the field. And the Bears broke the game wide open with it.



The French had a word for it, too. For baseball, we mean. Up in Mon-treal, the Dodgers International League farm, the French fans call a home run a *coup de circuit*. A stolen base is a *but vols*, and base on balls, *quatre balles*. While French fans predominate, the *carte officielle de pointage*, or score card, is also printed in English, Span-ish and Jewish to suit rabid clientele. Games are announced in French and English.

Here are the French words for players by position: *lanceur*, p; *rece-veur*, c; *premier but*, lb; *deuxième but*, 2b; *troisième but*, 3b; *arrêt court*, ss; *champ gauche*, lf; *champ centre*, cf; *champ droit*, rf. The manager is the *gérant*, the trainer, the *entraîneur*. The umpires? Simple, they're *arbitres*. More often than not, however, they're merely *aveugles*—blind men.

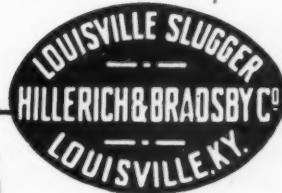
Many unusual requests are received at the National Federation office in Chicago, ranging from a request to purchase a shockproof watch for a son in the service to a request for theatre tickets and a request for in-formation as to the year the double-dribble in basketball was penalized as a technical foul.

A recent unusual request came from New Jersey, and stems from the last issue of the *National Press*, which was mailed with a five-cent stamp carry-ing the flag of Korea. It seems these are collector's items. Anyway, a Jer-sey philatelist called the Federation over long distance and asked if he could purchase all these stamps on hand. Nine-dollars worth were passed along.

Hysteria was made at Greenville, N. Y., on May 11 when the local high school had to call off a baseball game because of a 9-inch snowfall! (Thanks to Coach Don Mabree.)



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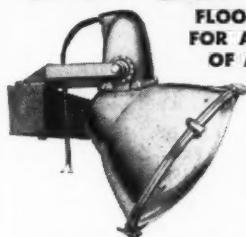
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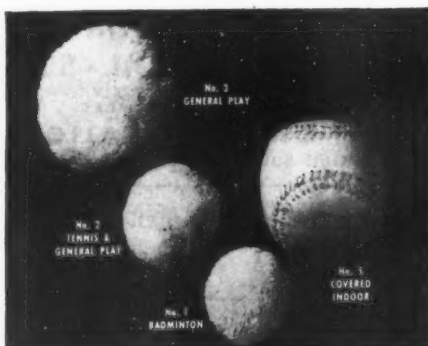
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**Wilson**

**WILSON SPORTING GOODS CO.**  
 2037 No. Campbell Ave., Chicago 47, Ill.

Balls

John T. Riddell, Inc.  
 A. G. Spalding & Bros.  
 W. J. Voit Rubber Co.  
 Weaver-Wintark Co.

Cleats for Shoes

Brooks Shoe Mfg. Co.  
 Starr Sporting Goods Co.  
 Sure-Step Cleat Co.

**Football Cleats**

IN STOCK

Send for Complete Information

**SURE STEP CLEAT CO.**

P. O. BOX 628

AKRON 9, OHIO

Dummies and Machines

Atlas Athletic Equipment Co.  
 National Sports Equipment Co.  
 Petersen & Co.  
 Wilson Sporting Goods Co.

Shoes

(See special listing under Shoes)

**GYMNASIUM EQUIPMENT**

Complete Equipment

The American Net & Twine Div. of The  
 Linen Thread Co., Inc. (gym-dividing  
 nets)

## NETS for Gym Division

Gym netting and dividing nets especially adapted for division of indoor floor space. Have multiple uses. Made to order.

The AMERICAN NET and TWINE DIVISION

of  
 The LINEN THREAD CO., Inc.  
 60 East 42 Street New York 17, N. Y.

Griswold & Nissen (Trampolines)

## —TRAMPOLINING—

America's Newest Sport—New Workout Pleasure—Fascinating—Body Building—Develops Co-ordination and Control. Adopted By Educators. Write for free literature:

"TIPS ON TRAMPOLINING"

GRISWOLD & NISSEN  
 1807 2nd Ave. SE Cedar Rapids, Iowa

Horn Mfg. Co.  
 Maple Flooring Mfg. Assn. (floors)  
 Fred Medart Mfg. Co.

FOR THE FINEST QUALITY

**Gymnasium Equipment**

SPECIFY "MEDART"

**FRED MEDART MFG. CO.**

3535 De Kalb St.

St. Louis, Mo.

Mercury Equipment Co. (corrective equipment)

Narragansett Machine Co. (apparatus)

**GYMNASIUM  
 APPARATUS**

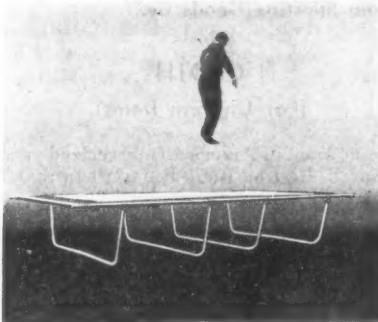
Over 70 Years Service  
 to High Schools

NEW APPARATUS AVAILABLE  
 REPAIR OLD EQUIPMENT

**NARRAGANSETT MACHINE  
 COMPANY**

PROVIDENCE, RHODE ISLAND

J. E. Porter Corp.  
 Recreation Equipment Co. (bouncer)



**Recreation BOUNCER**

The Ideal Tumbling Device

The RECREATION LINE of Playground, Swimming Pool and Basketball Equipment. Write for free catalog.

**RECREATION EQUIPMENT COMPANY**

ANDERSON, INDIANA

Starr Sporting Goods Co.  
 Stewart Iron Works (window guards)  
 Wilson Sporting Goods Co.

SCHOLASTIC COACH

Boxing Equipment

American Sporting Goods Co.  
 Atlas Athletic Equipment Co.  
 MacGregor-Goldsmith, Inc. (gloves)  
 National Sports Equipment Co. (rings, pads, covers, training bags)  
 Nonpareil Mfg. Co.  
 Petersen & Co.  
 Rawlings Mfg. Co.  
 A. G. Spalding & Bros.

Floor Finishes

American Crayon Co.

GET THESE BENEFITS WITH

**KAYSAN!**

\*Reg. U. S. Pat. Off.

- INCREASES FLOOR LIFE
- PERMANENT FINISH
- EASY TO APPLY
- EASY TO KEEP CLEAN
- SHOWS NO LAPS
- ECONOMICAL
- DOES NOT CRACK OR MAR



Consolidated Laboratories

**HAZARD - PROOF YOUR FLOORS  
 with PERMA-GYM-SEAL!**

Tough, wear-resistant, easy to clean,  
 no-glare protection. Economical!

**CON-SOL** 1470 S. VANDEVENTER  
 ST. LOUIS 10, MISSOURI

**REMOVE RUBBER-BURNS QUICK  
 with SOLON RUBBER REMOVER!**

Rubber and composition sole skid marks  
 easily wiped from any gym floor.  
 Inexpensive! Effective!

**CON-SOL** 1470 S. VANDEVENTER  
 ST. LOUIS 10, MISSOURI

**PLASTIC FINISH NON-SKID FLOORS  
 with CON-SOL SKIDPROOF!**

Outlasts wax 3 to 5 times for all floors. Easy to  
 'apply—quick drying—non-cracking  
 —economical.

**CON-SOL** 1470 S. VANDEVENTER  
 ST. LOUIS 10, MISSOURI

Continental Car-Na-Var Corp.

**CAR-NA-SEAL**  
 WEARS LIKE LEATHER

**For GYMNASIUM FLOORS**

A tough, pliable, leather-like sealer for wood, linoleum, concrete and other floors. Made of bakelite and similar phenolic resins. Non-slippery . . . will not scratch or rubber-burn. Keeps floors sanitary. Also used as undercoater for Car-Na-Lac, the lacquer-like self-polishing wax.

**CONTINENTAL CAR-NA-VAR CORP.**  
 BRAZIL, INDIANA



C. B. Dolge Co.

**DOLCOROCK***Fast but Safe***Gymnasium Floor Finish**

The C. B. DOLGE Co., Westport, Conn.

Finnell System

Fuld Bros.

The Hillyard Co. (also maintenance)

Hillyard's Floor Seals, Finishes and Treatments properly protect and make attractive all types of floors and give entire satisfaction in Safety, Uniformity, Dependability and Economy.

**THE HILLYARD COMPANY**

Distributors

Hillyard Chemical Co. St. Joseph I, Mo.  
Branches in Principal Cities

Huntington Laboratories, Inc.

**SEAL-O-SAN**  
THE PERFECT GYM FLOOR FINISH  
A Product of  
**HUNTINGTON LABORATORIES, Inc.**  
HUNTINGTON, INDIANA

The Selig Co., Inc.

**DURING THE SUMMER  
RECONDITION YOUR GYM  
FLOORS WITH SELIG'S**

**JIM KOTE****A superior finish**

Write for Gym Floor Manual

**THE SELIG COMPANY**Manufacturing Chemists  
ATLANTA, GEORGIA

G. H. Tennant Co. (floor maintenance)  
Vestal Chemical Labs.  
West Disinfecting Co.

**Folding Bleachers**

Horn Mfg. Co.

Bradley M. Layburn Co.

**GYMNASIUM and PLAYGROUND  
APPARATUS.**

**PORTABLE BLEACHERS AND  
GYMSTANDS.**

**BRADLEY M. LAYBURN CO.**  
461—8th Avenue, New York, N. Y.

Fred Medart Mfg. Co.  
Universal Bleacher Co.  
Wayne Iron Works (folding grandstands)

**Gym and Wrestling Mats, Covers**

American Hair &amp; Felt Co. (hair felt padding)

**Keep Your Gym Mats Lively Longer!**Specify **OZITE** Gym Mat  
Genuine Filler

Write for names of concerns who can supply you.

**AMERICAN HAIR & FELT CO.**  
MERCHANDISE MART, CHICAGO 54, ILL.

American Playground Device Co.  
Atlas Athletic Equipment Co.  
Everwear Mfg. Co.  
A. Mamaux & Son  
Fred Medart Mfg. Co.  
National Sports Equipment Co.

GET THE BEST VALUE IN  
**GYM MATS-PADS  
BOXING RINGS  
TRAINING BAGS** *Send for New Catalog*  
NATIONAL SPORTS EQUIPMENT CO.  
180 MARQUETTE • • • FOND DU LAC, WISCONSIN

Petersen &amp; Co.

**PETERSEN  
GYM MATS**  
Used in Schools, Colleges, Army Bases and Naval Stations coast-to-coast. Full line wrestling, boxing, tumbling mats and foot-ball dummies. Send for catalog and prices.  
**PETCO**  
**PETERSEN & CO.**  
5561 BAYNTON STREET.  
PHILADELPHIA 44 PA.

J. E. Porter Corp.  
A. G. Spalding & Bros.

**Gym Suits**

(Including girls' gym and play suits)  
Tom Broderick Co.  
Champion Knitwear Co.

**Champion Gym Uniforms****T SHIRTS** with processed lettering and design.**GYM SHORTS.** Drawstring styles; belt and buckle, various cloths and colors.

**CHAMPION KNITWEAR CO., Inc.**  
ROCHESTER NEW YORK

Cullum & Boren Co.  
MacGregor-Goldsmith, Inc.  
National Sports Equipment Co.  
Rawlings Mfg. Co.

**Shoes**

(See special listing under Shoes)

**ICE HOCKEY****Complete Equipment**

(Pucks, sticks, skates, uniforms)

Ken-Wel Sporting Goods Co., Inc. (gloves helmets, pads, pants)  
Rawlings Mfg. Co.  
A. G. Spalding & Bros.  
Wilson Sporting Goods Co.

**Pucks**

Seamless Rubber Co.  
United States Rubber Co.

**INSURANCE**

Illinois Mutual Casualty Co. (athletic insurance)

**ILLINOIS MUTUAL CASUALTY COMPANY****Athletic Sports Insurance****HOME OFFICE: PEORIA, ILLINOIS****LEATHER PRESERVATIVES**

Martin Dennis Co.  
Ivory System  
MacGregor-Goldsmith, Inc.  
John T. Riddell, Inc.  
Snow-Proof Co.  
Snowshoe Labs.  
A. G. Spalding & Bros.  
Viscol Company (also waterproofings, saddle soaps)  
Wilson Sporting Goods Co.

**LOCKER ROOM EQUIPMENT****Baskets**

American Playground Device Co.  
American Wire Form Co.

**NO-GERM  
CHECKING & LOCKER  
BASKETS**  
Woven and Welded • Low Prices — Assorted sizes and styles, all built for heavy service. Also special hanger baskets to take entire wardrobe. Write for 6 page folder SC  
**American Wire Form Co.**  
275-279 Grant Ave. Jersey City 1

Fred Medart Mfg. Co.  
J. E. Porter Corp.  
Stewart Iron Works (wire partitions)

**Deodorants**

Consolidated Laboratories  
The Selig Co., Inc.

**Disinfectants**

The Hillyard Co.  
The Selig Co., Inc.

**Foot Baths**

American Playground Device Co.  
Cramer Chemical Co.  
C. B. Dolge Co.  
Everwear Mfg. Co.  
The Hillyard Co.  
Huntington Laboratories, Inc.  
J. E. Porter Corp.  
West Disinfecting Co.

## Foot Bath Solutions

American Playground Device Co.  
Consolidated Laboratories  
Cramer Chemical Co.  
C. B. Dolge Co.  
The Hillyard Co.  
Huntington Laboratories, Inc.  
Pennsylvania Salt Mfg. Co.  
J. E. Porter Corp.  
The Selig Co., Inc.

**CONTROL  
ATHLETE'S FOOT  
WITH SELIG'S  
DISTISAN**  
SATISFACTORY • ECONOMICAL  
Selig Foot Bath Trays are  
also available  
Write for information  
**THE SELIG COMPANY**  
Manufacturing Chemists  
ATLANTA, GEORGIA

Vestal Chemical Labs.  
West Disinfecting Co.

## Locker Room Cleansers

Consolidated Laboratories  
C. B. Dolge Co.  
The Hillyard Co.  
Huntington Laboratories, Inc.  
Pennsylvania Salt Mfg. Co.  
Pittsburgh Plate Glass Co.  
The Selig Co., Inc.  
West Disinfecting Co.

## Locker Room Sandals

Beacon Falls Rubber Co.

## Tile Cleansers

Consolidated Laboratories  
Continental Car-Na-Var Corp.  
C. B. Dolge Co.  
The Hillyard Co.  
Huntington Laboratories, Inc.  
Pennsylvania Salt Mfg. Co.

## YOUR SWIMMING POOL

- ✓ Clean it with TILITE . . .
- ✓ Sanitize with Perchloron



**PENNSYLVANIA SALT  
MANUFACTURING COMPANY**  
*Chemicals*

1000 Widener Bldg.

Philadelphia 7, Pa.

Vestal Chemical Labs.

## Wire Mesh Partitions

Stewart Iron Works

## PLAYGROUND EQUIPMENT

The American Net & Twine Div. of The  
Linen Thread Co., Inc. (volleyball nets)

## NETS for Volley Ball

Come in black or white, with patented rope  
loops, 30 and 32-foot lengths. Heavy duck top  
binding with taped bottom and ends. Also  
roped top and bottom. The best there is.

The AMERICAN NET and TWINE DIVISION  
of

The LINEN THREAD CO., Inc.  
60 East 42 Street New York 17, N. Y.

## American Playground Device Co.

AMERICAN  
APPROVED EQUIPMENT

World's Foremost Exclusive Man-  
ufacturers of the Finest Play-  
ground, Swimming Pool and  
Physical Fitness Apparatus.

Write for Complete Literature, Today  
American Playground Device Co.  
Anderson, Indiana

Everwear Mfg. Co.  
General Playground Equipment, Inc.  
Griswold & Nissen (Trampolines)  
MacGregor-Goldsmith, Inc.  
Fred Medart Mfg. Co.  
J. E. Porter Corp.  
Rawlings Mfg. Co.  
Recreation Equipment Co.

## RIFLERY

## Rifles

Marlin Firearms Co., Inc.



O. F. Mossberg & Sons  
Remington Arms Co.

## RIFLE TEAM EQUIPMENT

Remington Arms Company, Inc., the oldest manu-  
facturer of firearms in America, again will make a com-  
plete line of 22-caliber target rifles and ammunition  
when war production requirements permit. Write for  
FREE booklet telling how to organize and equip a high  
school rifle team.

*Remington*



"If It's Remington—It's Right!"

Savage Arms Co.  
J. Stevens Arms Co.  
Western Cartridge Co. (ammunition)  
Winchester Repeating Arms Co. (ammuni-  
tion)

## Look to

**WINCHESTER**  
TRADE MARK

Now—for advice on all shooting and  
range problems

After Victory—for the best in rifles  
and ammunition

**WINCHESTER REPEATING ARMS CO.**

Division of Olin Industries, Inc.  
NEW HAVEN 4, CONN.

## SCHOLASTIC COACH

## SHOES

## Complete Equipment

(Baseball, basketball, football, gym,  
track, tennis)

Brooks Shoe Mfg. Co.

**BROOKS**

The Finest in  
**Athletic Footwear**

Write for Catalog  
BROOKS SHOE MFG. CO., PHILA. 39, U.S.A.

Cullum & Boren Co.  
Hyde Athletic Shoe Co.

**SPORTS and SCHOLASTIC  
FOOTWEAR**

**HYDE ATHLETIC SHOE CO.**

432 Columbia Street, Cambridge, Mass.

MacGregor-Goldsmith, Inc.  
John T. Riddell, Inc.  
Wilson Sporting Goods Co.

## Baseball

Brooks Shoe Mfg. Co.  
Rawlings Mfg. Co.  
A. G. Spalding & Bros.  
United States Rubber Co. (softball)

## Basketball

Beacon Falls Rubber Co.  
Brooks Shoe Mfg. Co.  
Converse Rubber Co.

**CONVERSE**

"Chuck Taylor"

**ALL STAR  
BASKETBALL  
FOOTWEAR**

**CONVERSE RUBBER COMPANY**

MALDEN, MASS.

Chicago 6, 564 W. Monroe Street

Hood Rubber Co.  
Mishawaka Rubber & Woolen Mfg. Co.  
Rawlings Mfg. Co.  
A. G. Spalding & Bros.  
United States Rubber Co.

## Bowling

A. G. Spalding & Bros.

## Football

Brooks Shoe Mfg. Co.  
Rawlings Mfg. Co.  
A. G. Spalding & Bros.  
Sure-Step Cleat Co. (cleats)

## Six-Man Football

Beacon Falls Rubber Co.  
Brooks Shoe Mfg. Co.  
Converse Rubber Co.  
MacGregor-Goldsmith, Inc.  
Rawlings Mfg. Co.  
United States Rubber Co.



## Gym

Beacon Falls Rubber Co.  
Brooks Shoe Mfg. Co.  
Converse Rubber Co.  
Hood Rubber Co.  
Mishawaka Rubber & Woolen Mfg. Co.  
United States Rubber Co.

## Tennis

Beacon Falls Rubber Co.  
Brooks Shoe Mfg. Co.  
Converse Rubber Co.  
Hood Rubber Co.  
Mishawaka Rubber & Woolen Mfg. Co.  
A. G. Spalding & Bros.  
United States Rubber Co.

## Track

Beacon Falls Rubber Co.  
Brooks Shoe Mfg. Co.  
Converse Rubber Co.  
Rawlings Mfg. Co.  
A. G. Spalding & Bros.  
United States Rubber Co.

## SOCKS

The Adler Co.

### The Line of Superior Quality SPORTMASTER

Athletic Socks      Hunting Hose

**THE ADLER COMPANY**  
CINCINNATI 14, OHIO

Beacon Falls Rubber Co.  
Champion Knitwear Co.  
Hand Knit Hosiery Co.  
King Sportswear Co.  
MacGregor-Goldsmith, Inc.  
Nelson Knitting Mills  
United States Rubber Co.  
Wilson Sporting Goods Co.

## SOFTBALLS

J. H. Grady Mfg. Co.  
Lannom Mfg. Co.  
Oregon Worsted Co. (indoor)  
Sporting Goods, Inc.

### SPORTING GOODS, INC.

88 BIRNIE AVENUE  
SPRINGFIELD 7, MASS.

Manufacturers of  
**TOP QUALITY SOFTBALLS  
AND BASEBALLS**  
Since 1938

IT IS THE PERFECT SPHERE BALL THAT COUNTS

W. J. Voit Rubber Co.

## SWEATERS AND JERSEYS

Champion Knitwear Co.

### JERSEYS FOR ALL SPORTS— Sweat Shirts—T Shirts—Shorts

Champacraft process lettering

**CHAMPION KNITWEAR CO., Inc.**  
ROCHESTER NEW YORK

Callum & Boren Co.  
Hand Knit Hosiery Co.  
King Sportswear Co.  
MacGregor-Goldsmith, Inc.  
O'Shea Knitting Mills  
Rawlings Mfg. Co.

Roper Knitting Co.  
A. G. Spalding & Bros.  
Trojan Athletic Wear Co.  
Wilson Sporting Goods Co.

## SWIMMING

## Bathing Suits and Swim Suits

American Wire Form Co. (wrist bands,  
checks, wire baskets)  
Champion Knitwear Co.  
MacGregor-Goldsmith, Inc.  
George McArthur & Sons (robes)  
Ocean Pool Supply Co., Inc.

SWIM SUITS      TRUNKS  
ACCESSORIES  
TEAMS EQUIPPED  
Ask for Samples  
**OCEAN POOL SUPPLY CO.**  
71 W. 35 St.      New York, N. Y.

O'Shea Knitting Mills  
Seamless Rubber Co. (caps)  
A. G. Spalding & Bros.  
United States Rubber Co.

## Diving Stands

Everwear Mfg. Co.  
General Playground Equipment, Inc.  
Fred Medart Mfg. Co. (also pool ladders)  
J. E. Porter Corp.  
Recreation Equipment Co.  
Wayne Iron Works (grandstands)

## Nose Clips

Health-O-Swim Nose Clip Co.

## Water Chlorinators

Everson Mfg. Co.  
The Hillyard Co.  
Pennsylvania Salt Mfg. Co.

## Pool Vacuum Cleaners

American Playground Device Co.

## AMERICAN APPROVED EQUIPMENT

World's Foremost Exclusive Manufacturers of the Finest Playground, Swimming Pool and Physical Fitness Apparatus.

Write for Complete Literature, Today  
**American Playground Device Co.**  
Anderson, Indiana

General Playground Equipment, Inc.  
Recreation Equipment Co.  
Standard Pool Cleaner Co.

## TUEC

Vacuum Cleaners for Swimming Pools  
Write for complete information on how to keep your pool clean without draining.

**THE STANDARD POOL CLEANER CO.**  
1320 GREENFIELD AVE. S.W. CANTON, O.

## TENNIS

## Complete Equipment

Cragin-Simplex Co. (rackets)  
E. I. DuPont De Nemours Co. (nylon racket strings)  
General Sportcraft Co.  
E. P. Juneman Corp. (strings)

JUNEMAN'S Tennis and Badminton gut strings combine speed and durability . . .  
Send for free booklet.

**THE E. P. JUNEMAN CORP.**  
1100 W. 47th Place  
CHICAGO (9) ILLINOIS

# MASTER COUPON

After carefully checking items desired, mail this coupon directly to Scholastic Coach advertising department, 220 East 42nd Street, New York 17, N. Y.

- |  |  |   |
|--|--|---|
| AMERICAN CRAYON (28)<br><input type="checkbox"/> Free Kaysan Demonstration Kit         | DENVER CHEMICAL (27)<br><input type="checkbox"/> Handbook, "Athletic Injuries"   | JOHNSON & JOHNSON (19)<br><input type="checkbox"/> Information on V-Front Supporters                                    |
| BECTON, DICKINSON (18)<br><input type="checkbox"/> Ace Athletic Manual                 | GRISWOLD & NISSEN (36)<br><input type="checkbox"/> Booklet, "Tips on Trampolining"   | KAHNFAST ATHLETIC FABRICS (29)<br>See ad for Nearest Uniform Maker  |
| BIKE WEB (13)<br><input type="checkbox"/> Information on Athletic Supporters           | HILLERICH & BRADSBY (31)<br><input type="checkbox"/> Official Softball Rules<br><input type="checkbox"/> Famous Sluggers Year Book | BRADLEY M. LAYBURN (35, 37)<br><input type="checkbox"/> Information on Gym and Playground Apparatus, Portable Bleachers |
| BROOKS SHOE (2)<br><input type="checkbox"/> Information on Athletic Footwear           | HILLYARD SALES (25)<br><input type="checkbox"/> Booklet, "Floor Treatment and Maintenance Job Specifications"                      | LEAVITT CORP. (24)<br><input type="checkbox"/> Information on Knock-down Bleachers                                      |
| COACHING SCHOOL INFORMATION<br><input type="checkbox"/> Colorado H. S. (29)            | HORN MFG. (28)<br><input type="checkbox"/> Information on Folding Bleachers  | LINEN THREAD (Inside Front Cover)<br><input type="checkbox"/> Folder on How to Make Sports Nets Last Longer             |
| COCA-COLA (22)<br>See Ad for Softball Tournament Entry Coupon                          | HUNTINGTON LABS. (3)<br><input type="checkbox"/> Seal-O-San Basketball Coaches' Digest   | MacGREGOR-GOLDSMITH (17, 21)<br><input type="checkbox"/> Catalog  |
| CONSOLIDATED LABS. (27)<br><input type="checkbox"/> Information on Rubber Burn Remover |  |   |

(Numbers in parentheses denote page on which advertisement may be found)

**SEE PAGE 40 FOR OTHER LISTINGS AND FORM FOR SIGNATURE**

Ken-Wel Sporting Goods Co., Inc.  
MacGregor-Goldsmith, Inc. (balls, nets, shoes)  
J. E. Porter Corp. (posts, nets, reels, markers)  
A. G. Spalding & Bros.  
United Clay Mines Corp. (markers)  
Wilson Sporting Goods Co.

**Backstops**

Stewart Iron Works  
Wayne Iron Works

**Balls**

Dunlop Tire & Rubber Co.  
Pennsylvania Rubber Co.  
Rawlings Mfg. Co.  
A. G. Spalding & Bros.  
W. J. Voit Rubber Co.

**Dust Settlers**

Gulf Refining Co.  
Pittsburgh Plate Glass Co.  
Solvay Sales Corp.

**Nets**

The American Net & Twine Div. of  
The Linen Thread Co., Inc.

**NETS for Tennis**

Famous Champion and Dreadnought; also Gold Medal Double Center. Latest improvements. Long wearing and extra durable.

The AMERICAN NET and TWINE DIVISION  
of

The LINEN THREAD CO., Inc.  
60 East 42 Street New York 17, N. Y.

American Playground Device Co.  
Everwear Mfg. Co.  
Fred Medart Mfg. Co. (standards)  
Rawlings Mfg. Co.  
Recreation Equipment Co. (all metal)

**TIMERS**

(Stop Watches)

Jules Racine & Co.  
Rawlings Mfg. Co.  
A. G. Spalding & Bros.  
Wilson Sporting Goods Co.

Stop Watch Repairs  
MacGregor-Goldsmith, Inc.  
Jules Racine & Co.

**TRACK AND FIELD****Complete Equipment**

(Hurdles, vaulting poles, javelins, shots, shoes, etc.)

Champion Knitwear Co.  
MacGregor-Goldsmith, Inc.  
J. E. Porter Corp.  
Rawlings Mfg. Co.  
A. G. Spalding & Bros.  
Wilson Sporting Goods Co.

**Vaulting Poles**

Cullum & Boren Co.  
Fred Medart Mfg. Co.

**Shoes**

(See special listing under Shoes)

**TRAINING ROOM SUPPLIES****Complete Equipment**

Athletic Trainers Supply Co.  
Rawlings Mfg. Co.  
A. G. Spalding & Bros.  
Wilson Sporting Goods Co.

**Absorbent Cotton**

Bike Web Mfg. Co.

**Antiseptics**

Consolidated Laboratories  
The Hillyard Co.  
Hynson, Westcott & Dunning, Inc.  
(Mercurochrome)

**Athlete's Foot Preventives**

Consolidated Laboratories  
C. B. Dolge Co.  
Fuld Bros.  
Everwear Mfg. Co.  
The Hillyard Co.  
Huntington Laboratories, Inc.

**KOPERTOX**

The New Control for  
**ATHLETE'S FOOT**  
Send for free 1 oz. trial bottle  
**KOPERTOX LABORATORIES**  
3 SPRING LANE, BOSTON 9, MASS.

Kopertox Laboratories  
The Mennen Co.  
Mer-Kil Chemical Products Co.  
Pennsylvania Salt Mfg. Co.  
J. E. Porter Corp.  
West Disinfecting Co.

**Bandages**

Becton, Dickinson & Co. (Ace Elastic)

**ACE BANDAGES**

| Ace No. 1                                    | Ace No. 8                                     | Ace No. 10                 |
|--|---|----------------------------|
| All Cotton<br>For General Use<br>And Support | With Lastex*<br>For Tension<br>Extra Pressure | Elastic<br>and<br>Adhesive |

**BECTON, DICKINSON & COMPANY**  
\*Reg. U. S. Pat. Off. RUTHERFORD, N. J.

Bike Web Mfg. Co.  
Johnson & Johnson  
MacGregor-Goldsmith, Inc.  
J. E. Porter Corp.  
Seamless Rubber Co.

**First Aid Kits**

Bike Web Mfg. Co.  
The Hillyard Co.  
J. E. Porter Corp.  
Rawlings Mfg. Co.

**Heat and Sun Lamps, Pads**

Bike Web Mfg. Co.  
General Electric Co. (sun lamps)  
Hanovia Chemical Mfg. Co.  
J. E. Porter Corp.  
Sun Products Co.

**Pads and Guards**

Bike Web Mfg. Co.  
Matthews Abdo-Gard  
O-C Manufacturing Co.  
Rawlings Mfg. Co.

**Poultice**

Denver Chemical Co. (antiseptic dressing)

**SCHOLASTIC COACH MASTER COUPON**

(See page 39 for other listings)

(Numbers in parentheses denote page on which advertisement may be found)

- |  |   |  |
|--|---|--|
| McARTHUR & SONS (24)<br><input type="checkbox"/> Post-War School Towel Plan  | OCEAN POOL SUPPLY (2)<br><input type="checkbox"/> Information on Trunks, Klogs, Kick Boards, Nose Clips, Caps                         | SEAMLESS RUBBER (4)<br><input type="checkbox"/> Booklet, "My Method of Taping Athletes," by Fred Driscoll  |
| FRED MEDART (29)<br><input type="checkbox"/> Book, "Physical Training, Practical Suggestions for the Instructor"<br><input type="checkbox"/> Booklet, "Physical Fitness Apparatus" | OREGON WORSTED (28)<br><input type="checkbox"/> Information on Flying Fleece Recreational Balls                                       | SPALDING & BROS. (1)<br><input type="checkbox"/> Catalog<br><input type="checkbox"/> Sports Show Book  |
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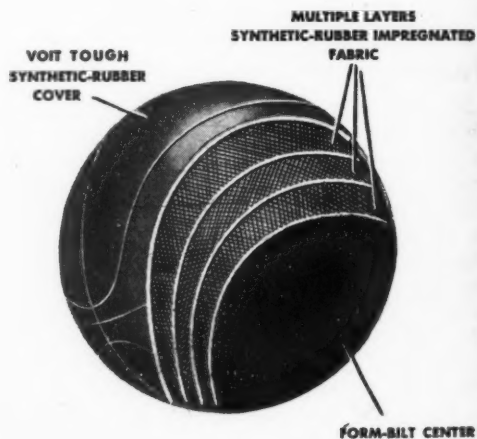
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